PMC-DR45

SERVICE MANUAL

US Model
Canadian Model

AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
With 4-ohm loads, both channels driven from 150 - 10,000 Hz; rated 13 W per channel-minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

CD Section	Model Name Using Similar Mechanism	CFD-S47
	CD Loading Mechanism Type	FLM-DR45-149
	CD Mechanism Type	KSM-213CCP
	Optical Pick-up Name	KSS-213C
Tape Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-DR45

SPECIFICATIONS

CD player section
System
Compact disc digital audio system
Laser diode properties
Material: GaAlAs
Wave length: 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 µW
(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Spindle speed
200 r/min (rpm) to 500 r/min (rpm) (CLV)
Number of channels
2
Frequency response
20 - 20,000 Hz +0/–1 dB
Wow and flutter
Below measurable limit

Radio section
Frequency range
FM: 87.6 - 108 MHz
AM: 530 - 1,710 kHz
Antennas
FM: Lead antenna
AM: Loop antenna

Cassette-corder section
Recording system
4-track 2-channel stereo
Fast winding time
Approx. 120 s (sec.) with Sony cassette C-60
Frequency response
TYPE I (normal): 50 - 14,000 Hz

General
Speaker
Full range: 8 cm (3 1/4 in.) dia., 4 ohms, cone type × 2
Input
LINE IN jack (stereo minijack)
Minimum input level 440 mV
Outputs
Headphones jack (stereo minijack)
For 16 - 64 ohms impedance headphones
LINE OUT jack (stereo minijack)
Rated output level 330 mV at load impedance 47 kilohms
OPTICAL DIGITAL OUT (CD) (optical output connector)
Wave length: 760 - 880 nm
Power output (excluding US model)
15 W + 15 W (at 4 ohms, 10% harmonic distortion in AC operation)

– Continued on next page –

PERSONAL COMPONENT SYSTEM

SONY®

Power requirements
For personal component system:
120 V AC, 60 Hz
For remote control:
3 V DC, 2 AA (size R6) batteries
Power consumption
AC 45 W (US model)
AC 50W (Canadian model)
Dimensions (incl. projecting parts)
Player: approx. 137 × 202 × 212 mm (w/h/d)
(5 1/2 × 8 × 8 3/8 inches)
Left speaker: approx. 137 × 202 × 212 mm
(w/h/d) (5 1/2 × 8 × 8 3/8 inches)
Right speaker: approx. 137 × 202 × 180 mm
(w/h/d) (5 1/2 × 8 × 7 1/8 inches)
Mass
Player: approx. 1.8 kg (3 lb. 15 oz.)
Left speaker: approx. 3 kg (6 lb. 10 oz.)
Right speaker: approx. 1.5 kg (3 lb. 5 oz.)
Supplied accessories
Remote control (1) (RMT-CDR45A)
FM lead antenna (1)
AM loop antenna (1)
Audio connecting cord (1)

Design and specifications are subject to change without notice.

TABLE OF CONTENTS

SECTION 1
SERVICING NOTES

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT lable is located on the bottom exterior.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes).
Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

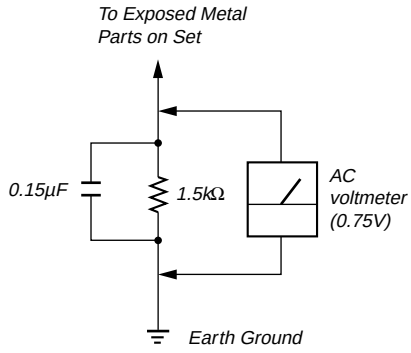
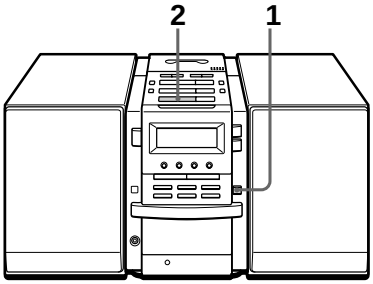


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 2
GENERAL

This section is extracted from instruction manual.

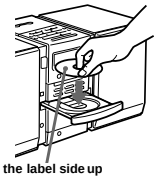
Playing a CD



For hookup instructions, see pages 32 - 36.

1

Press ⏏ CD OPEN/CLOSE (direct power-on) and place the CD on the CD tray.



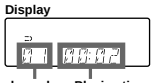
With the label side up

2

Press ►II.
(On the remote, press ► on the CD section.)

The CD tray closes and the player plays all the tracks once.

Display

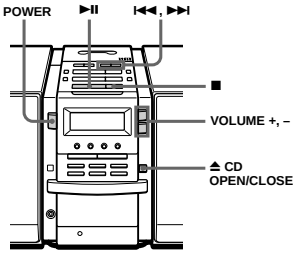


Track number Playing time

Tip

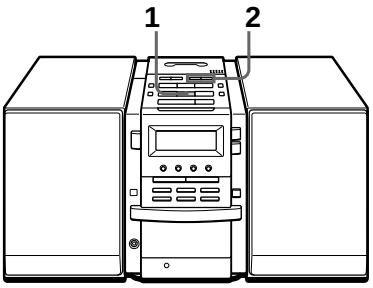
Next time you want to listen to a CD, just press ►II. The player turns on automatically and starts playing the CD.

Use these buttons for additional operations



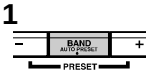
To	Press
adjust the volume	VOLUME +, – (VOL +, – on the remote)
stop playback	■
pause playback	►II (II on the remote) Press again to resume play after pause.
go to the next track	►►I
go back to the previous track	I◄◄
remove the CD	⏏ CD OPEN/CLOSE
turn on/off the player	POWER

Listening to the radio



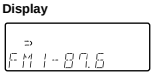
For hookup instructions, see pages 32 - 36.

1



Press BAND•AUTO PRESET until the band you want appears in the display (direct power-on).

Display



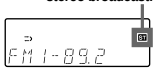
2

Hold down TUNE TIME SET + or – (TUNE + or – on the remote) until the frequency digits begin to change in the display.

The player automatically scans the radio frequencies and stops when it finds a clear station.

If you cannot tune in a station, press the button repeatedly to change the frequency step by step.

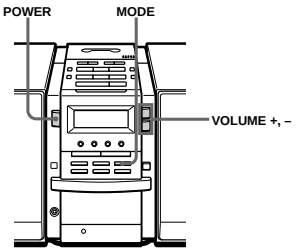
Indicates an FM stereo broadcast.



Tips

- The "FM1" and "FM2" bands have the same functions. You can store the stations you want separately in "FM1" and "FM2".
- If the FM broadcast is noisy, press MODE until "MONO" appears in the display and the radio will play in monaural.
- Next time you want to listen to the radio, just press the BAND•AUTO PRESET button. The player turns on automatically and starts playing the previous station.

Use these buttons for additional operations



To	Press
adjust the volume	VOLUME +, – (VOL +, – on the remote)
turn on/off the radio	POWER

To improve broadcast reception

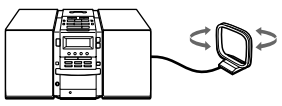
FM:

Keep the FM lead antenna as horizontal as possible and reorient it.

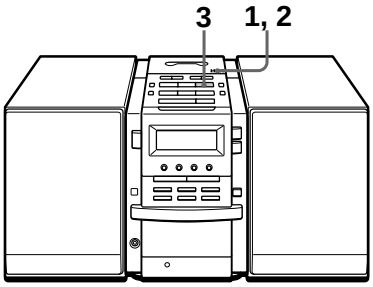
If the FM broadcast is still noisy, disconnect the FM lead antenna and connect the FM outdoor antenna (not supplied) (page 36).

AM:

Keep the AM loop antenna as far as possible from the player and reorient it.

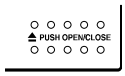


Playing a tape



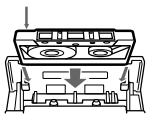
For hookup instructions, see pages 32 - 36.

1

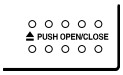


Press ⏏ PUSH OPEN/CLOSE to open the tape compartment and insert a recorded tape. Use TYPE I (normal), TYPE II (high position) and TYPE IV (metal) tapes.

With the side you want to play facing up



2



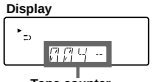
Press ⏏ PUSH OPEN/CLOSE to close the compartment.

3

Press ►.
(On the remote, press TAPE ►.)

The player turns on (direct power-on) and starts playing.

Display

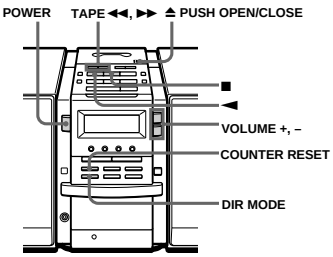


Tape counter

Tips

- Press COUNTER RESET to reset the counter to "000".
- Next time you want to listen to a tape, just press ► or ◄. The player turns on automatically and starts playing the tape.

Use these buttons for additional operations



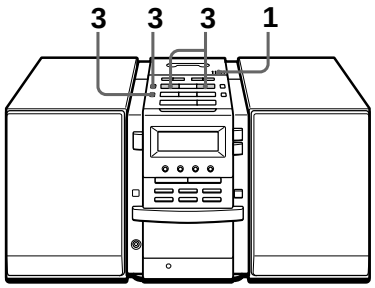
To	Press
adjust the volume	VOLUME +, – (VOL +, – on the remote)
stop playback	■
play the reverse side	◄
fast-forward or rewind the tape	TAPE ►► or ◄◄
eject the cassette	⏏ PUSH OPEN/CLOSE
turn on/off the player	POWER

To select the direction mode of the tape

Press DIR MODE repeatedly.

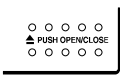
To play	Display shows
one side of the tape	⇄
both sides of the tape from the upper side to reverse side only	⇉
both sides of the tape repeatedly	⟲

Recording on a tape



For hookup instructions, see pages 32 - 36. To record on a MiniDisc or DAT recorder, connect the component (see page 38).

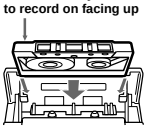
1



Press ⏏ PUSH OPEN/CLOSE to open the tape compartment, and insert a blank tape. Use TYPE I (normal) tape only.

Press ⏏ PUSH OPEN/CLOSE again to close the compartment.

With the side you want to record on facing up



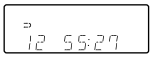
2

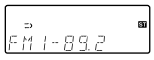
Select the program source you want to record.

To record from the CD player:
Insert a CD (see page 4) and press ■ on the CD section.

To record from the radio:
Tune in the station you want (see page 6).

Display





3

Start recording.

To record the whole CD

Press CD DUBBING.

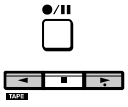
When ⇉ is displayed:

If the tape is reversed with the recording of the track unfinished, the player will record the track again from its beginning on the reverse side.

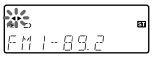
When ⇄ is displayed:

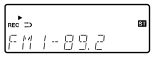
If the tape reaches to its end, the player stops.

To record the radio
(You can also record the CD according to the following procedure. Play the CD after the tape starts recording.)



Press ●/II and then ►.
To record on the reverse side, press ◄.
(On the remote, while keeping ●/II pressed, press TAPE ► or ◄.)

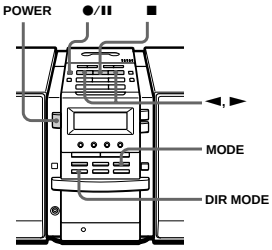




continued

Recording on a tape (continued)

Use these buttons for additional operations



To	Press
stop recording	■ on the tape section
pause recording	●/II Press the button again to resume recording.
turn on/off the player	POWER

To erase a recording, proceed as follows:

1 Insert a tape you want to erase its recording into the tape deck and press ■ on the tape section.

2 On the player: press ●/II and then ►.
On the remote: While keeping ●/II pressed, press TAPE ►.

Tips

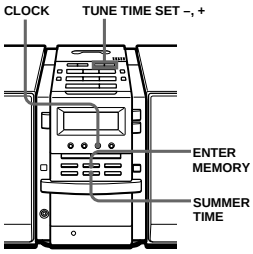
- Adjusting the volume or the audio emphasis (page 22) will not affect the recording level.
- When ⇄ or ⟲ is displayed, recording will be made on both sides of the tape. To record on one side, press DIR MODE to display →.
- If the AM radio makes a whistling sound after you've pressed ●/II in step 3, press MODE to select the position that most decreases the noise.

Note

When you start recording using CD DUBBING, you cannot set the player in pause.

Setting the clock

"– –:– –" indication appears in the display until you set the clock.



Tip

The time display system of this player is the 12-hour system.

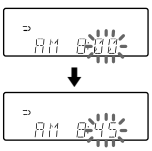
Before you begin, hook up the system (see pages 32 - 36).

1 Press and hold CLOCK until the hour digit flashes.

2 Set the clock.

① Press TUNE TIME SET + or – to set the hour and press ENTER MEMORY.

② Press TUNE TIME SET + or – to set the minutes.



3 If you are on daylight saving time, press SUMMER TIME.

4 Press ENTER MEMORY.

The clock starts from 00 seconds.

continued

Setting the clock (continued)

To change the display to the daylight saving time (summer time) indication

Press and hold SUMMER TIME for 2 seconds.

"SUMMER ON" appears in the display for a few seconds.

To cancel the summer time indication

Press and hold SUMMER TIME again.

"SUMMER OFF" appears in the display for a few seconds.

SECTION 3
DISASSEMBLY

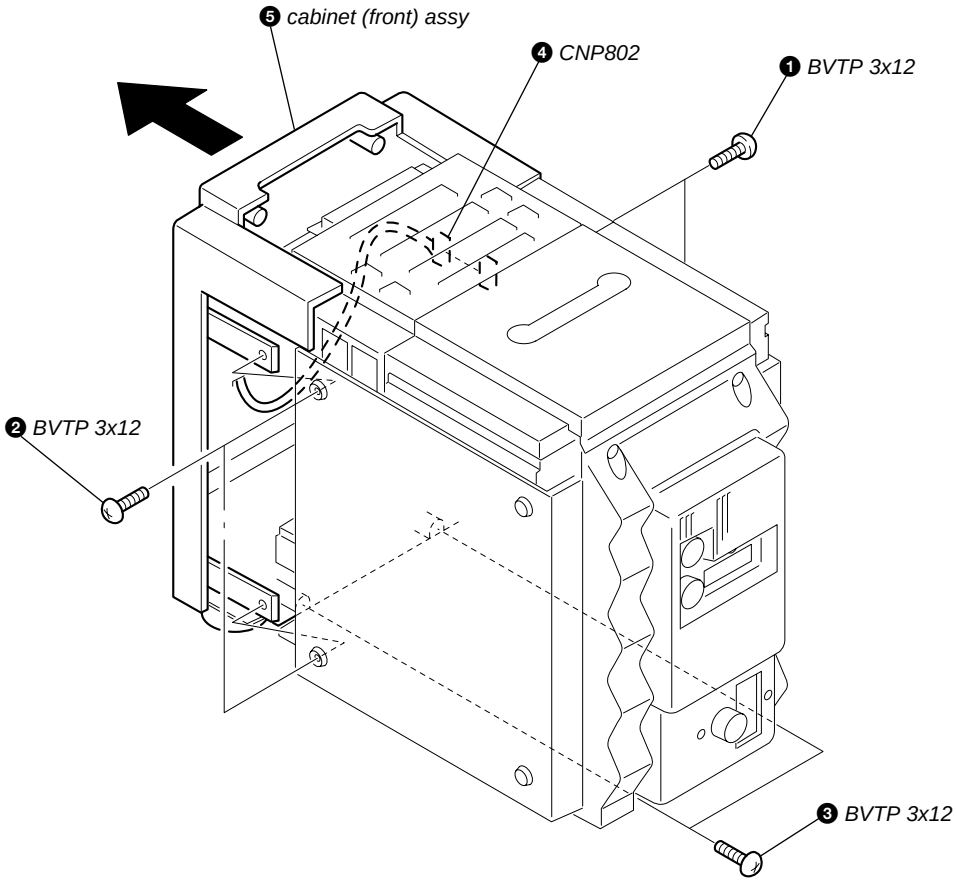
• The equipment can be removed using the following procedure.

Set → Cabinet (Front) Assy → Cabinet (Rear) → Control Board → Top Block Assy
Cabinet (Rear) → Front Board
Control Board → Tuner Board
Control Board → Line Board
Control Board → Holder, Cassette
Top Block Assy → Main Board → Tape Mechanism Block → Top Board (TC Board)
Main Board → CD Assy, H/P Board → "Plate Assy, Chuck", Tray
CD Assy, H/P Board → Loading Board → CD Board → CD Mechanism Block

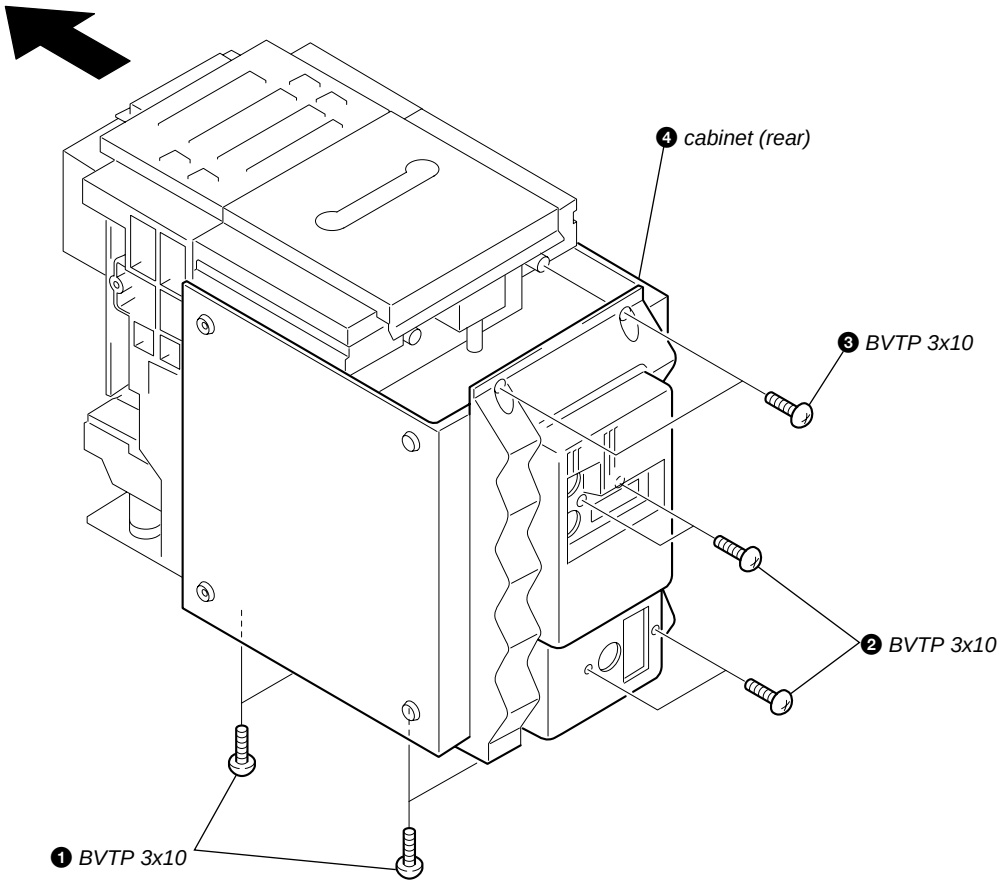
Speaker Set → Power Board

Note : Follow the disassembly procedure in the numerical order given.

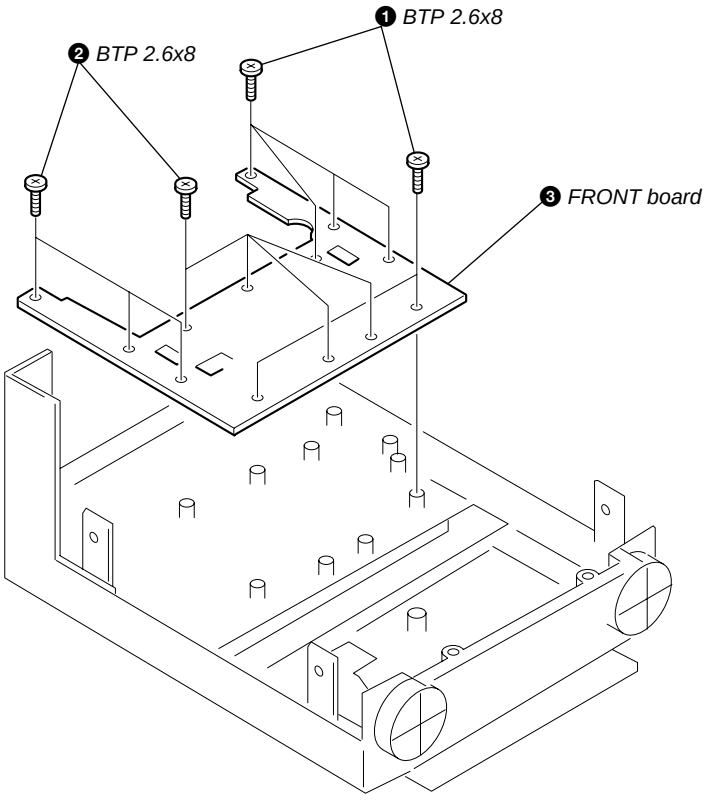
3-1. CABINET (FRONT) ASSY



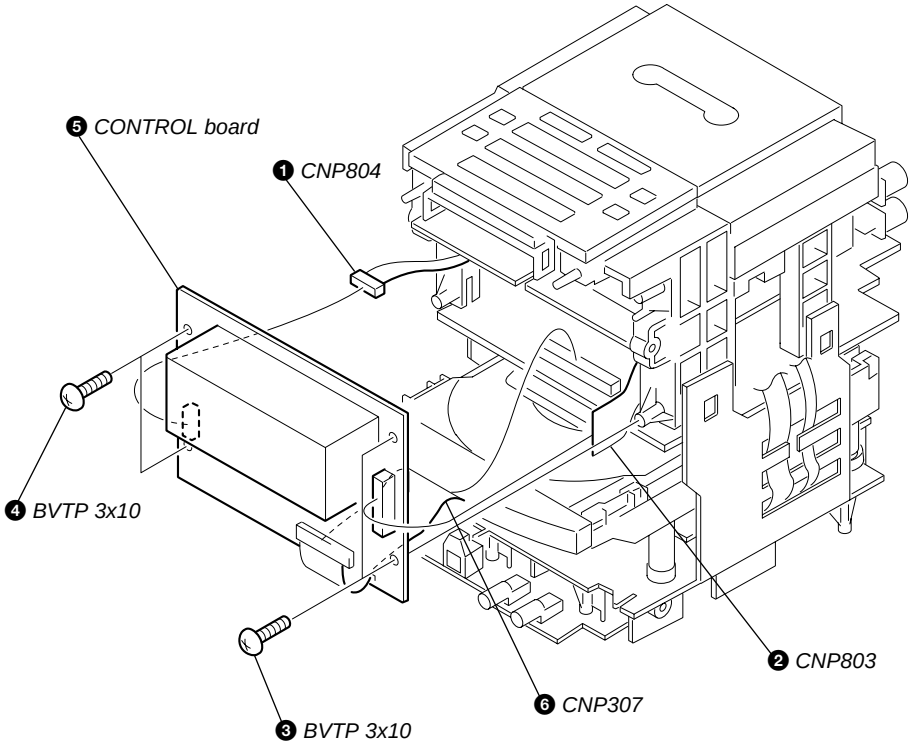
3-2. CABINET (REAR)



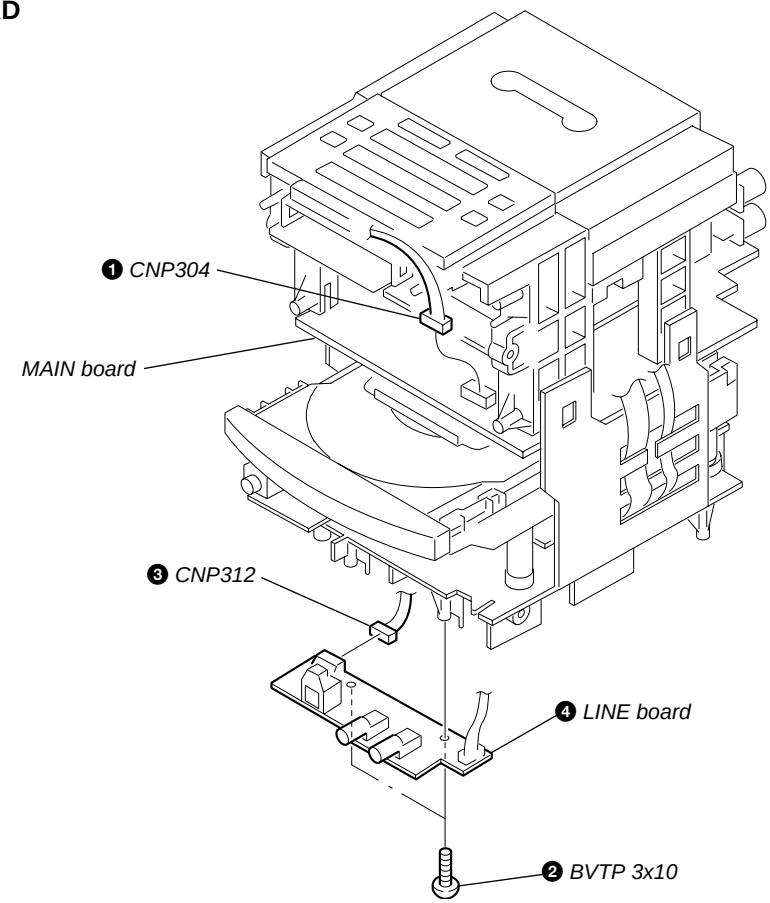
3-3. FRONT BOARD



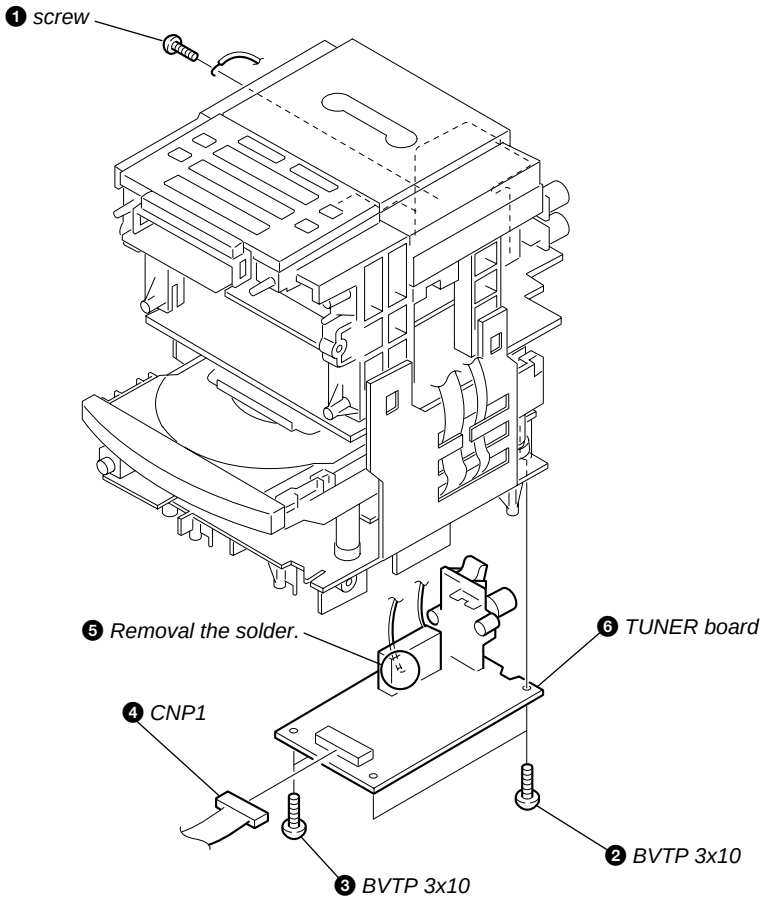
3-4. CONTROL BOARD



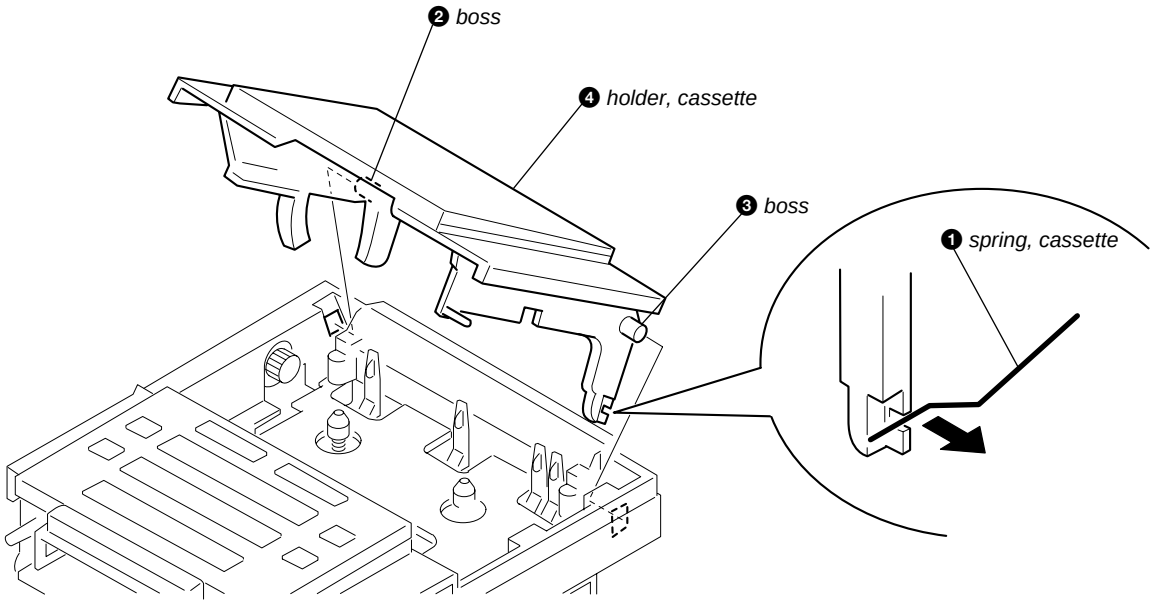
3-5. LINE BOARD



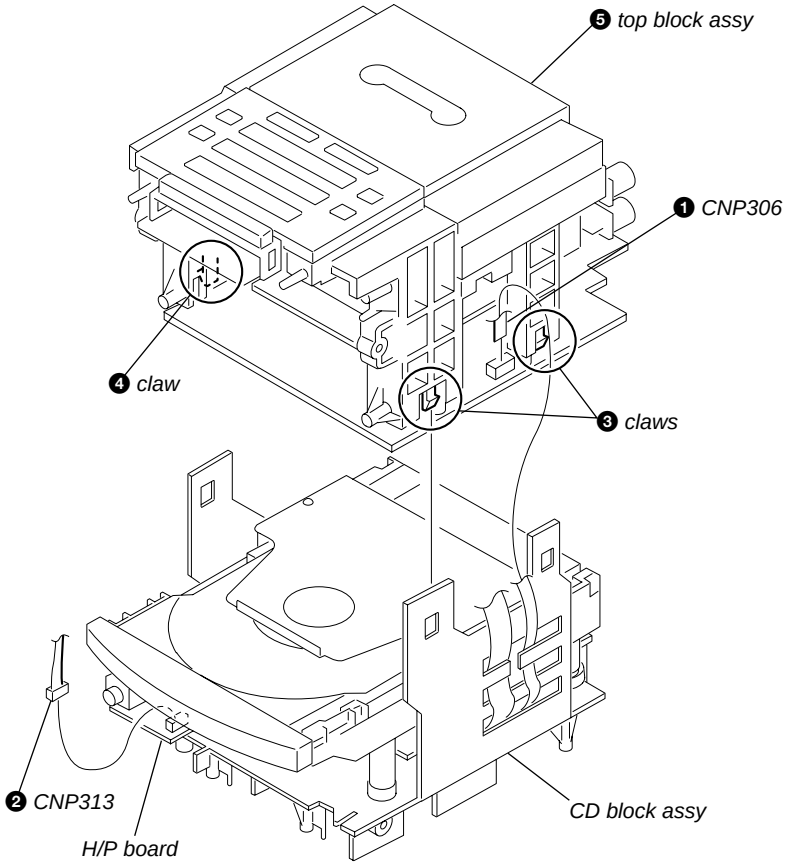
3-6. TUNER BOARD



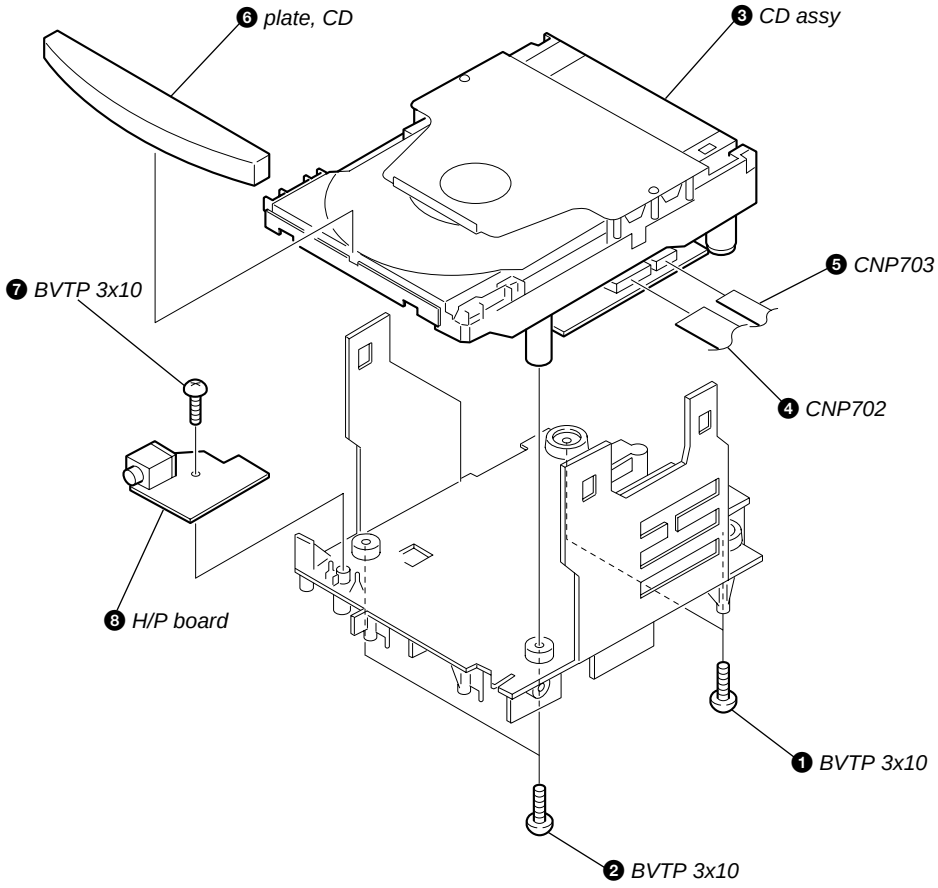
3-7. HOLDER, CASSETTE



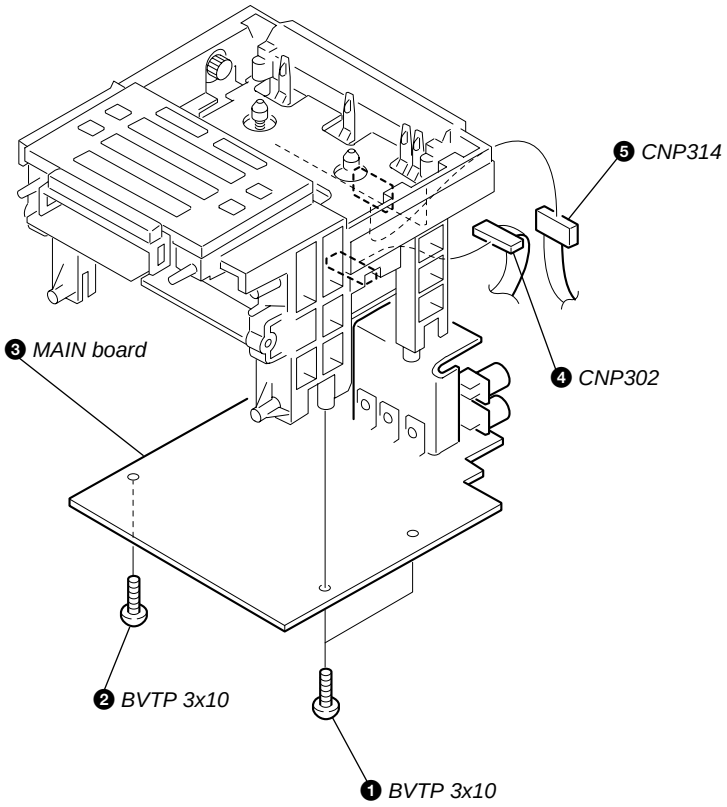
3-8. TOP BLOCK ASSY



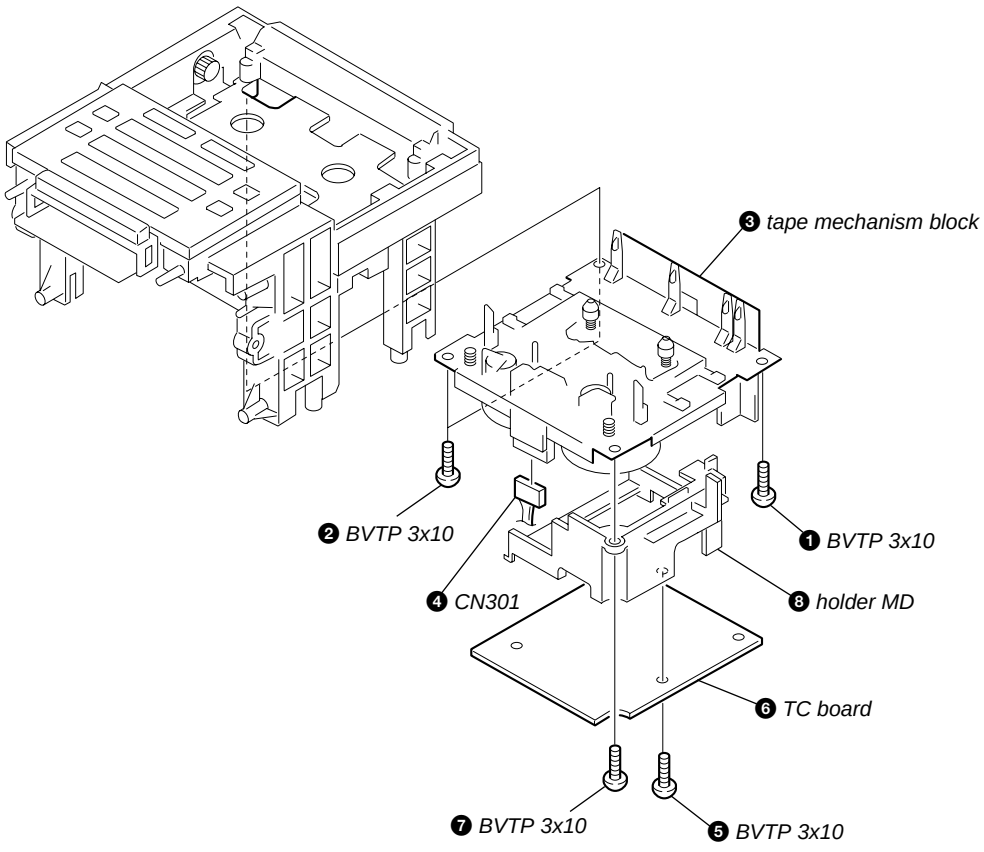
3-9. CD ASSY, H/P BOARD



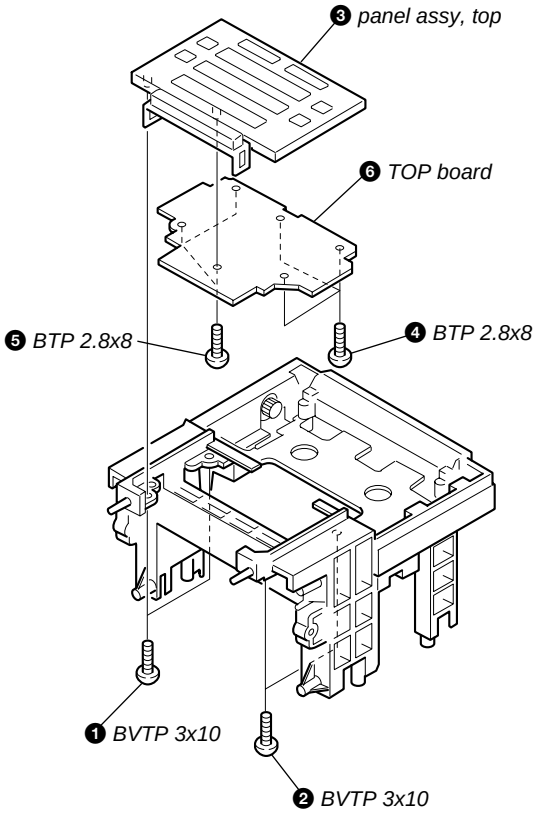
3-10. MAIN BOARD



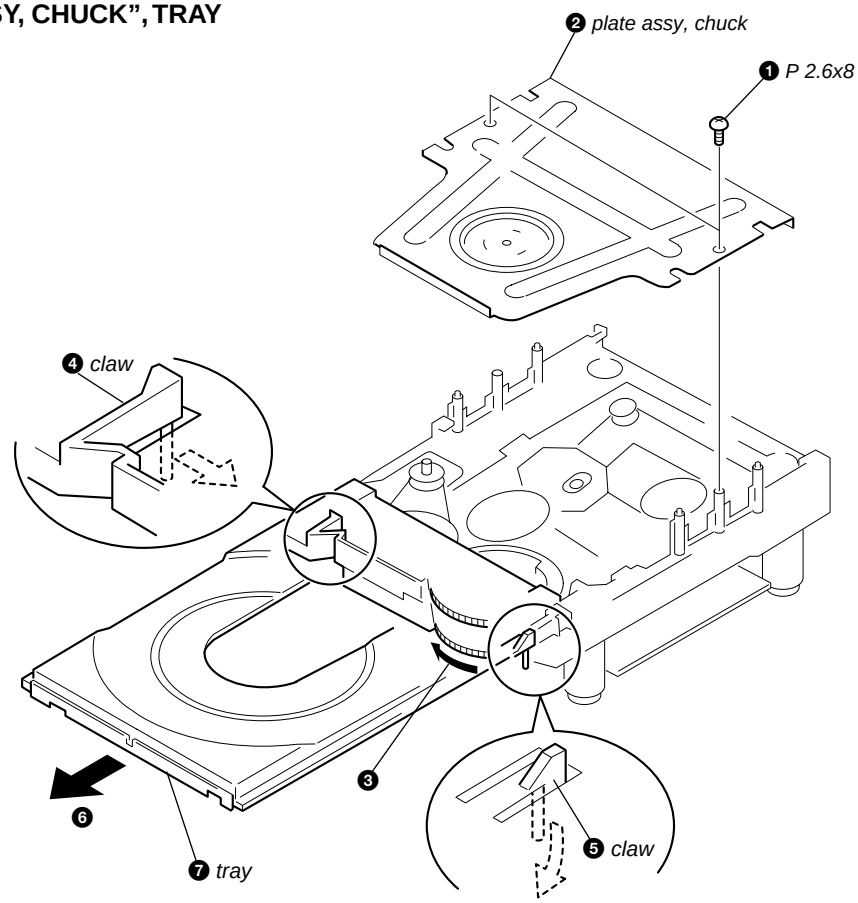
3-11. TAPE MECHANISM BLOCK (TC BOARD)



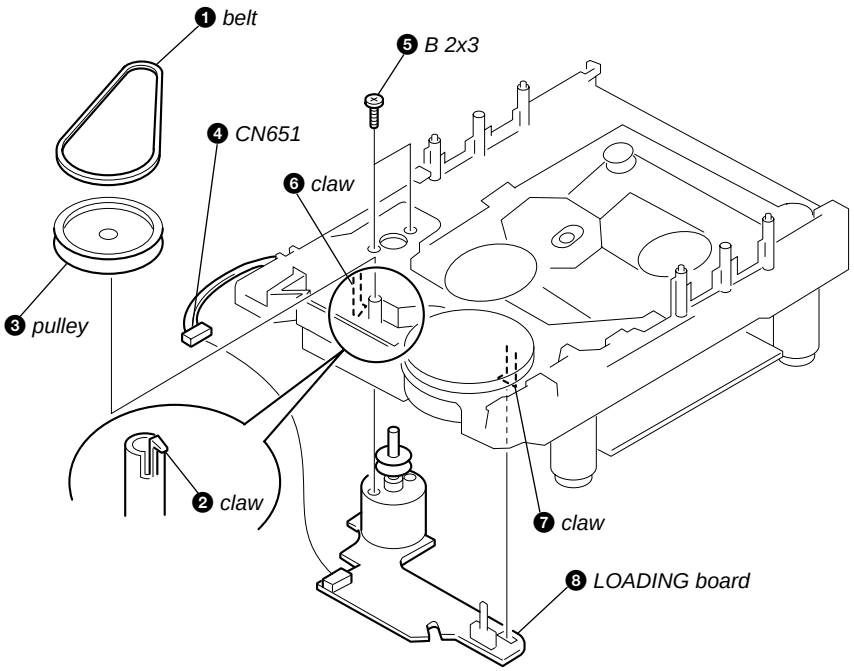
3-12. TOP BOARD



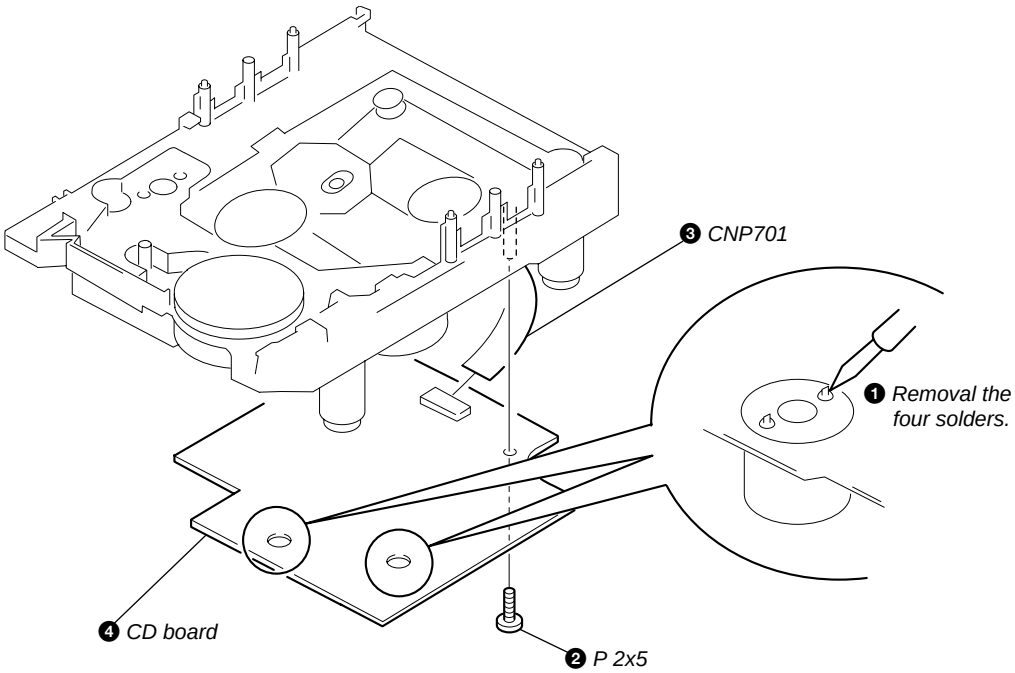
3-13. "PLATE ASSY, CHUCK", TRAY



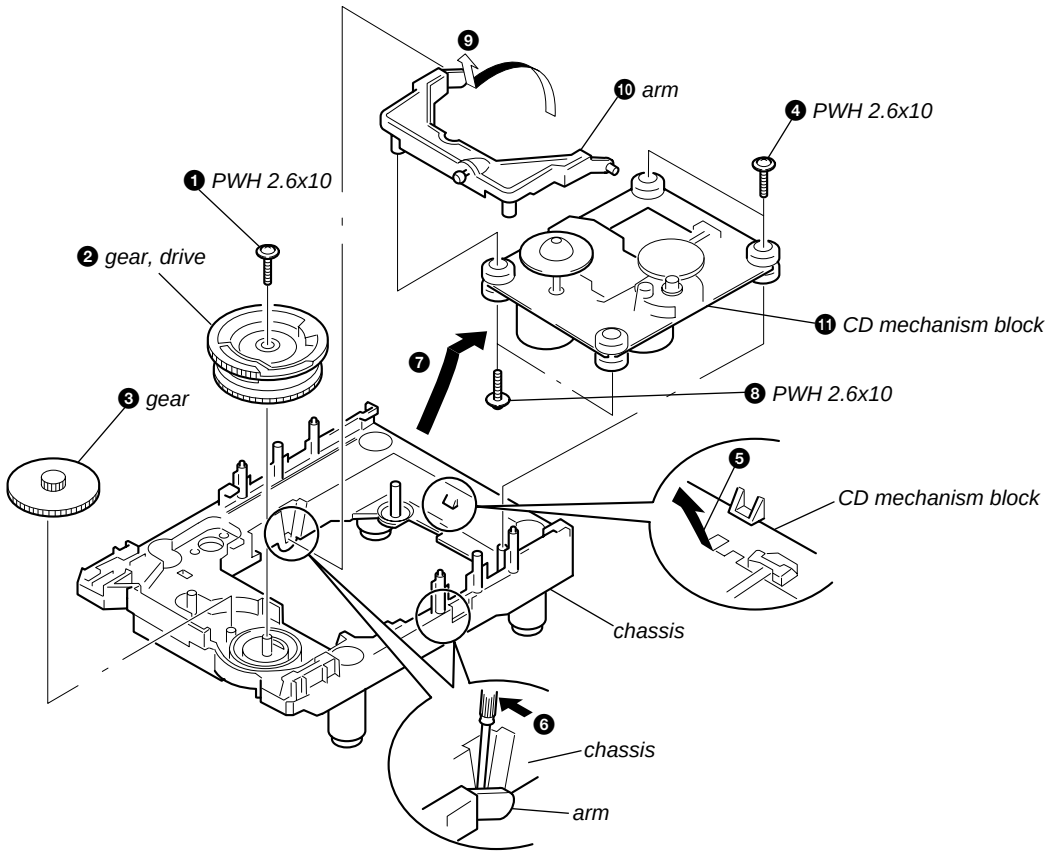
3-14. LOADING BOARD



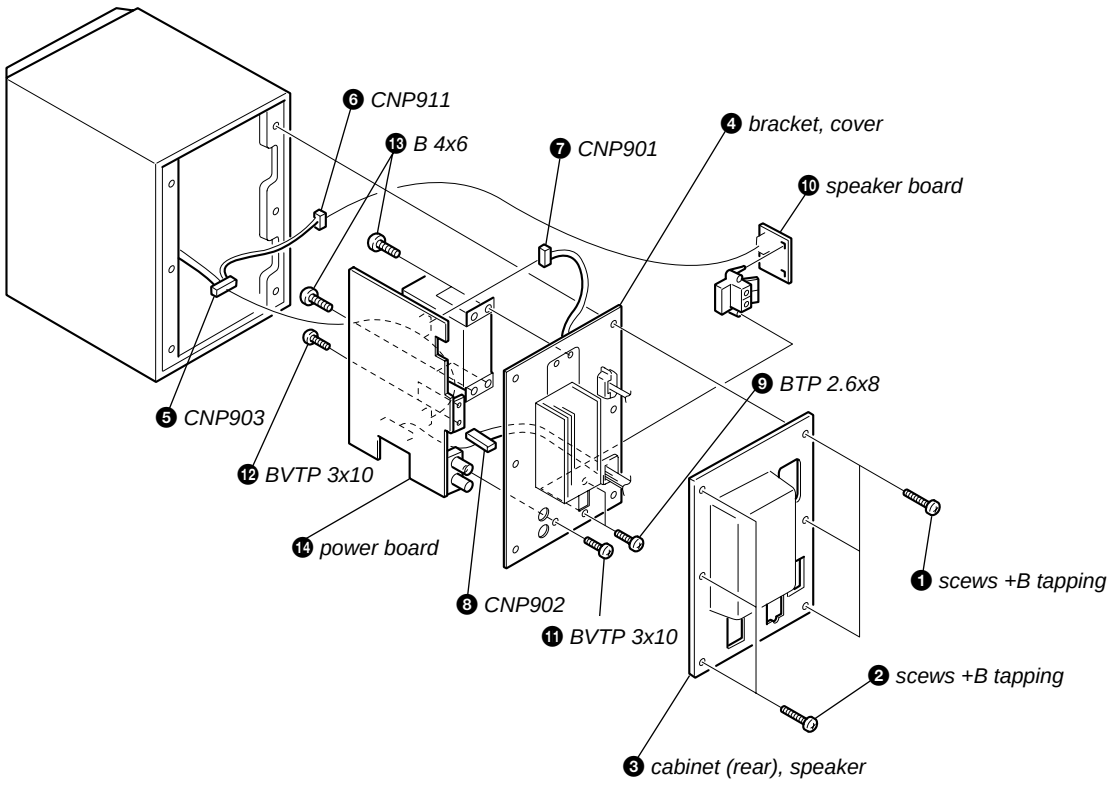
3-15. CD BOARD



3-16. CD MECHANISM BLOCK



3-17. POWER BOARD



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
   record/playback/erase head, pinch roller, rubber belts, capstan, idlers
2. Demagnetize the record/playback/erase head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head portion.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	3.53 – 5.98 mN•m (36 – 61 g•cm) (0.50 – 0.89 oz•inch)
FWD Back tension		0.20 – 0.58 mN•m (2.0 – 6.0 g•cm) (0.028 – 0.076 oz•inch)
REV	CQ-102RC	3.53 – 5.98 mN•m (36 – 61 g•cm) (0.50 – 0.89 oz•inch)
REV Back tension		0.20 – 0.58 mN•m (2.0 – 6.0 g•cm) (0.028 – 0.076 oz•inch)
FF, REW	CQ-201B	5.99 – 14.02 mN•m (61 – 143 g•cm) (0.89 – 2.00 oz•inch)

Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 100 g (more than 3.52 oz)
REV	CQ-403R	

SECTION 5
ELECTRICAL ADJUSTMENTS

5-1. TAPE SECTION **0 dB = 0.775 V**

1. The adjustments should be performed in the order given in the service manual. (As a general rule. Playback circuit adjustment should be completed before performing recording circuit adjustment.)
2. The adjustments should be performed for both L-ch and R-ch unless otherwise indicated.

Standard Output Level

	SP OUT	PHONES
Load impedance	4 Ω	32 Ω
Output level	0.775 V (0 dB)	0.25 V (–10 dB)

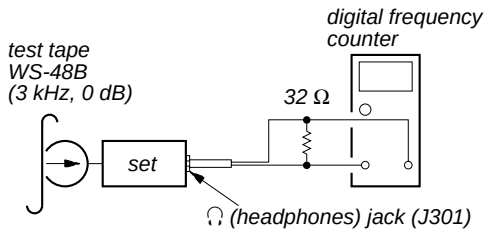
Test Tape

Type	Signal	Used for
WS-48B	3 kHz, 0 dB	Tape speed adjustment
P-4-A100	10 kHz, –10 dB	Head azimuth adjustment

Tape Speed Adjustment

Procedure:

Mode: playback



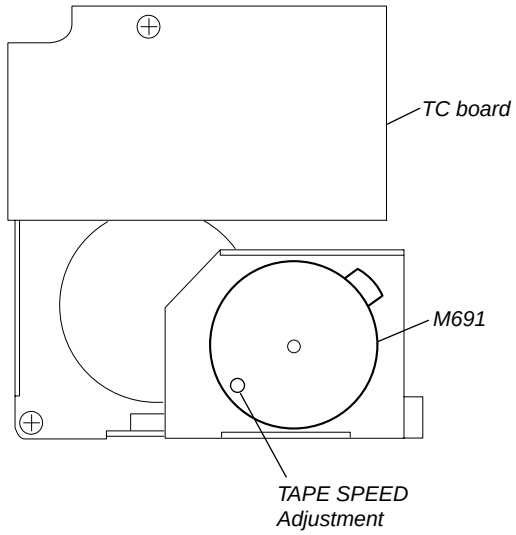
Adjust so that the value on the frequency counter is 3,000 Hz.

Specification Values:

Digital frequency counter
2,970 to 3,030 Hz

Adjust so that the frequency at the beginning and that at the end of tape winding are between 2,955 and 3,045 Hz.

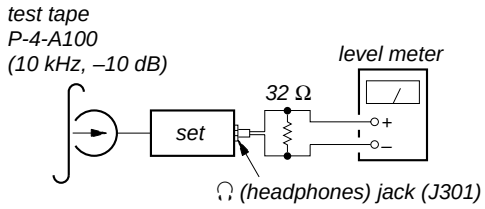
Adjustment Location:



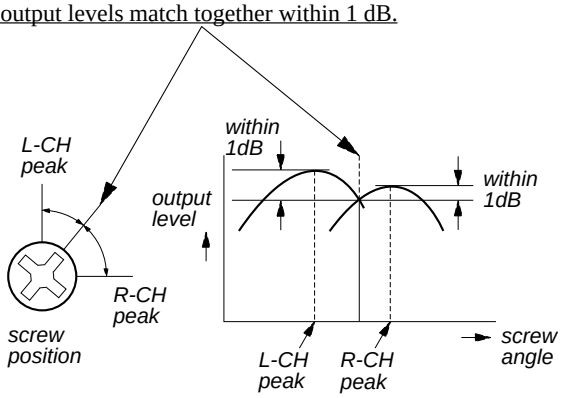
Record/Playback/Erase Head Azimuth Adjustment

Procedure:

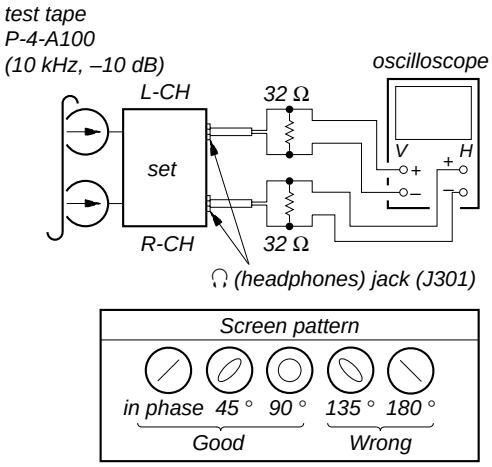
1. Mode: FWD/REV playback



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.

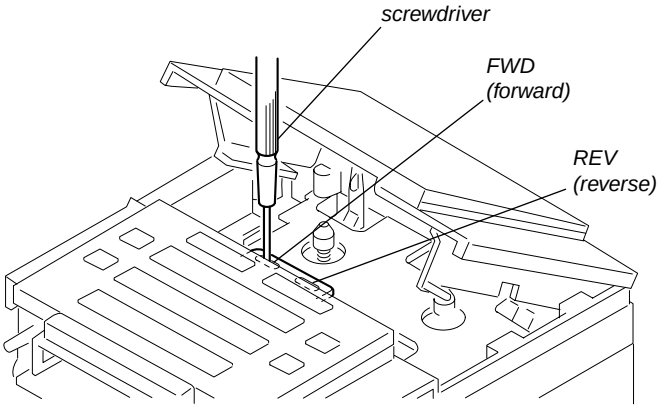


3. Phase Check
   Mode: FWD/REV playback



4. After the adjustment, lock the screws with locking compound.

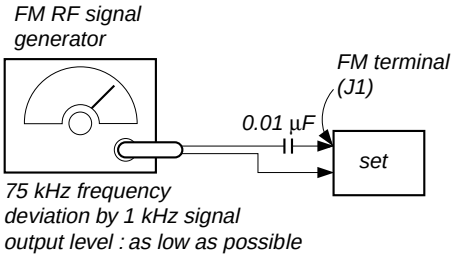
Adjustment Location:



5-2. TUNER SECTION **0 dB = 1 µV**

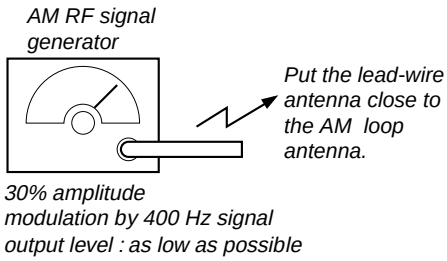
- **FM Section**

Setting:
BAND button: FM

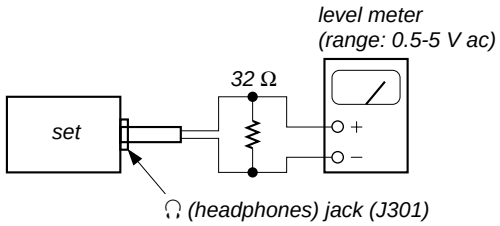


- **AM Section**

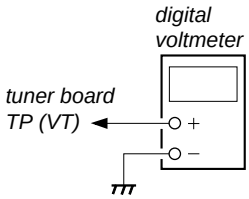
Setting:
BAND button: AM



- **Connecting Level Meter (FM and AM)**



- **Connecting Digital Voltmeter (FM and AM)**



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM FREQUENCY COVERAGE ADJUSTMENT		
Frequency Display	87.5 MHz	108 MHz
Reading on Digital voltmeter	1.5 ± 0.1 V	3.8 ± 0.4 V
Adjustment Part	L2	<confirmation>

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L1	CT1
87.5 MHz	108 MHz

FM IF ADJUSTMENT
Adjust for a maximum reading on level meter.
T2
10.7 MHz (Display: 98 MHz)

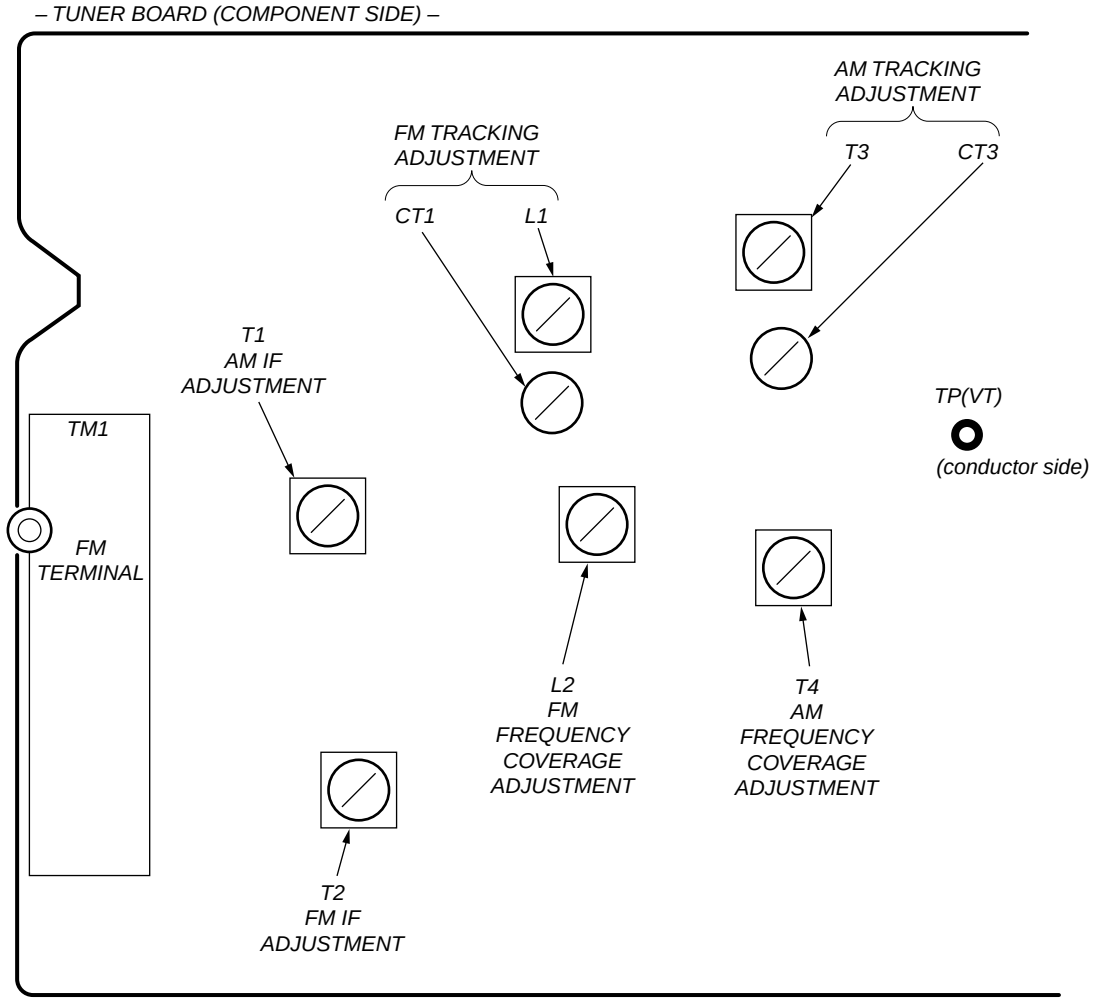
AM FREQUENCY COVERAGE ADJUSTMENT		
Frequency Display	530 kHz	1,710 kHz
Reading on Digital voltmeter	0.9 ± 0.1 V	5.1 ± 0.4 V
Adjustment Part	T4	<confirmation>

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
T3	CT3
620 kHz	1,400 kHz

AM IF ADJUSTMENT
Adjust for a maximum reading on level meter.
T1
450 kHz (Display: 1,000 kHz)

Adjustment Location: TUNER board (See page 19.)

Adjustment Location:



5-3. CD SECTION

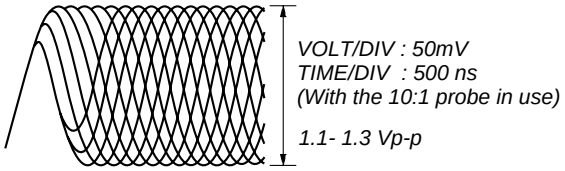
Focus Bias Check

This check is to be done when the optical block replaced.

Check Procedure:

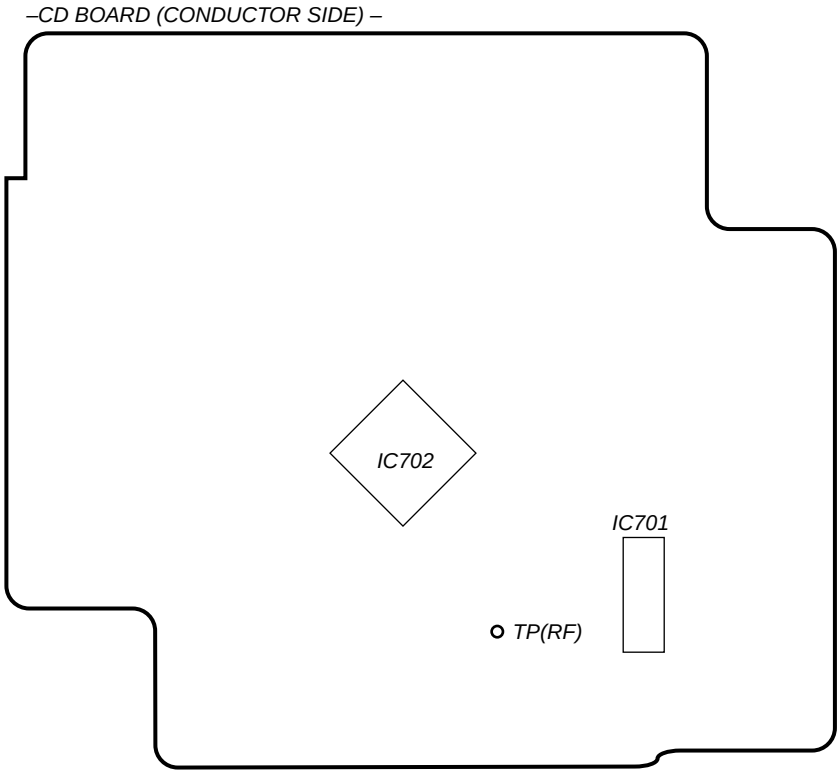
1. Connect the oscilloscope to test point TP (RF) on CD board. Insert disk (YEDS-18 (3-702-101-01)).
2. Press the ▶II button.
3. Check that the oscilloscope waveform is as shown in the figure below (eye pattern).
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.
4. Release test mode after adjustment is completed.

• RF signal reference waveform (eye pattern)



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

Adjustment Location: CD board



SECTION 6
DIAGRAMS

6-1. IC PIN DESCRIPTIONS

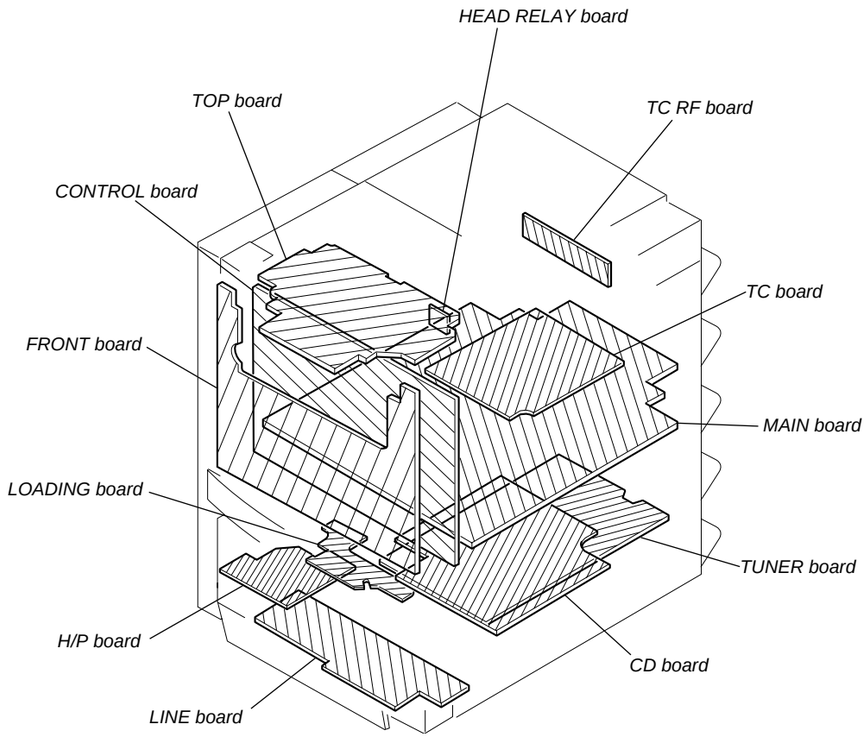
• CONTROL BOARD IC801 CXP82832-028Q (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1	G2	O	GRID2 signal output
2	G1	O	GRID1 signal output
3	NC	—	Not used. (Fixed at “H”.)
4	C-SCOR	I	SCOR signal input from the IC702 (CXD2587Q)
5	T-CNT (END)	I	T-COUNTER (T-END) signal input
6	REG.CHK	I	P-DOWN IN (B/UP) signal input
7	T-AMS	I	TAPE AMS IN signal input
8	RMC	I	Remote control signal input
9	T-MODE	I	T-MODE SW signal input
10	V-DA/LT	O	Serial data/latch signal output to the IC302 (BD3859FV)
11	R-CE	O	R-CE signal output
12	V-CLK	O	Serial clock signal output to the IC302 (BD3859FV)
13	R-CLK	O	R-CLOCK signal output
14	R-DATA	O	R-DATA signal output
15	R-COUNT	I	R-COUNT signal input
16	C-XLAT	O	Serial latch signal output to the IC702 (CXD2587Q)
17	C-CLK	O	Serial clock signal output to the IC702 (CXD2587Q)
18	C-DATA	O	Serial data signal output to the IC702 (CXD2587Q)
19	C-OPEN.I	I	CD open switch signal input
20	C-CLOSE.I	I	CD close switch signal input
21	C-SCLK	O	SCLK signal output to the IC702 (CXD2587Q)
22	RDS-CLK	I	Serial clock signal input (Not used in this set.)
23	RDS-DATA	I	Serial data signal input (Not used in this set.)
24	SD	I	LR signal detector terminal
25	C-SQCK	I	SUBQ clock signal input from the IC702 (CXD2587Q)
26	C-SQSO	I	SUBQ data signal input from the IC702 (CXD2587Q)
27	C-SENS	I	Sens signal input from the IC702 (CXD2587Q)
28	AVREF	—	A/D converter Vref pin
29	KEY1	I	Key signal input 1
30	KEY2	I	Key signal input 2
31	KEY3	I	Key signal input 3
32 – 34	F-CD	I	CD test mode pin
35	T-STAT	I/O	Tape status signal input/output
36	VERSION	I	Version read signal input
37	AVSS	—	Ground
38	$\overline{\text{RST}}$	I	Reset signal input from the IC802 (PST9128-T)
39	EXTAL	I	Clock oscillation input (8 MHz)
40	X’TAL	O	Clock oscillation output (8 MHz)
41	GND	—	Ground
42	TX	O	Crystal connection for clock oscillation (32.768 kHz)
43	TEX	I	Crystal connection for clock oscillation (32.768 kHz)
44	VDD	—	Power supply pin
45	VFDP	—	Voltage for FDP
46	NC	—	Not used. (Open)
47	C-OPEN.O	O	CD open signal output
48	C-CLS.O	O	CD close signal output
49	SFT-CLK	O	Shift clock signal output
50	C-RST	O	Reset signal output to the IC702 (CXD2587Q)

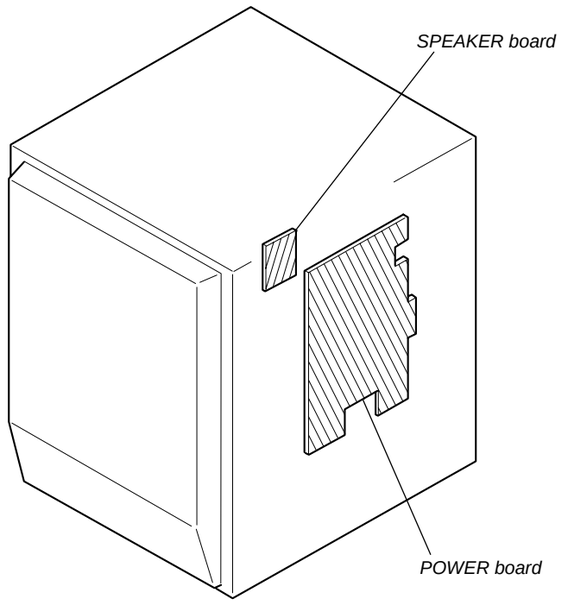
Pin No.	Pin Name	I/O	Pin Description
51	A-MUTE	O	System mute signal output
52	B-MUTE	O	Tuner mute signal output
53	C-MUTE	O	CD mute signal output
54	LINE-MUTE	O	Line out mute signal output
55	C-AGCCNT	O	CD AGC control signal output
56	T-REC	O	Tape REC signal output
57	T-BIAS	O	Tape bias signal output
58	T-SOL.	O	Tape solenoid signal output
59	T-MTR	O	Tape motor signal output
60	ISS1	O	ISS1 signal output
61	ISS2	O	ISS2 signal output
62	PWR-SAVE	O	Power save signal output
63	P-CON	O	Power control signal output
64	T-AMS.MUTE	O	Not used. (Open) Tape AMS mute signal output
65	LINE	O	Not used. (Open) Line out signal output
66	RDS-ON	O	RDS on signal output (Not used in this set.)
67	TAPE	O	Tape function signal output
68	TU	O	Tuner function signal output
69	CD	O	CD function signal output
70, 71	NC	—	Not used. (Open)
72 – 87	SEG16-1	O	Segment signal output
88	NC	—	Not used. (Open)
89	VDD	—	Power supply pin
90	NC	—	Not used. (Open)
91	G12	O	GRID 12 signal output
92	G11	O	GRID 11 signal output
93	G10	O	GRID 10 signal output
94	G9	O	GRID 9 signal output
95	G8	O	GRID 8 signal output
96	G7	O	GRID 7 signal output
97	G6	O	GRID 6 signal output
98	G5	O	GRID 5 signal output
99	G4	O	GRID 4 signal output
100	G3	O	GRID 3 signal output

6-2. CIRCUIT BOARDS LOCATION

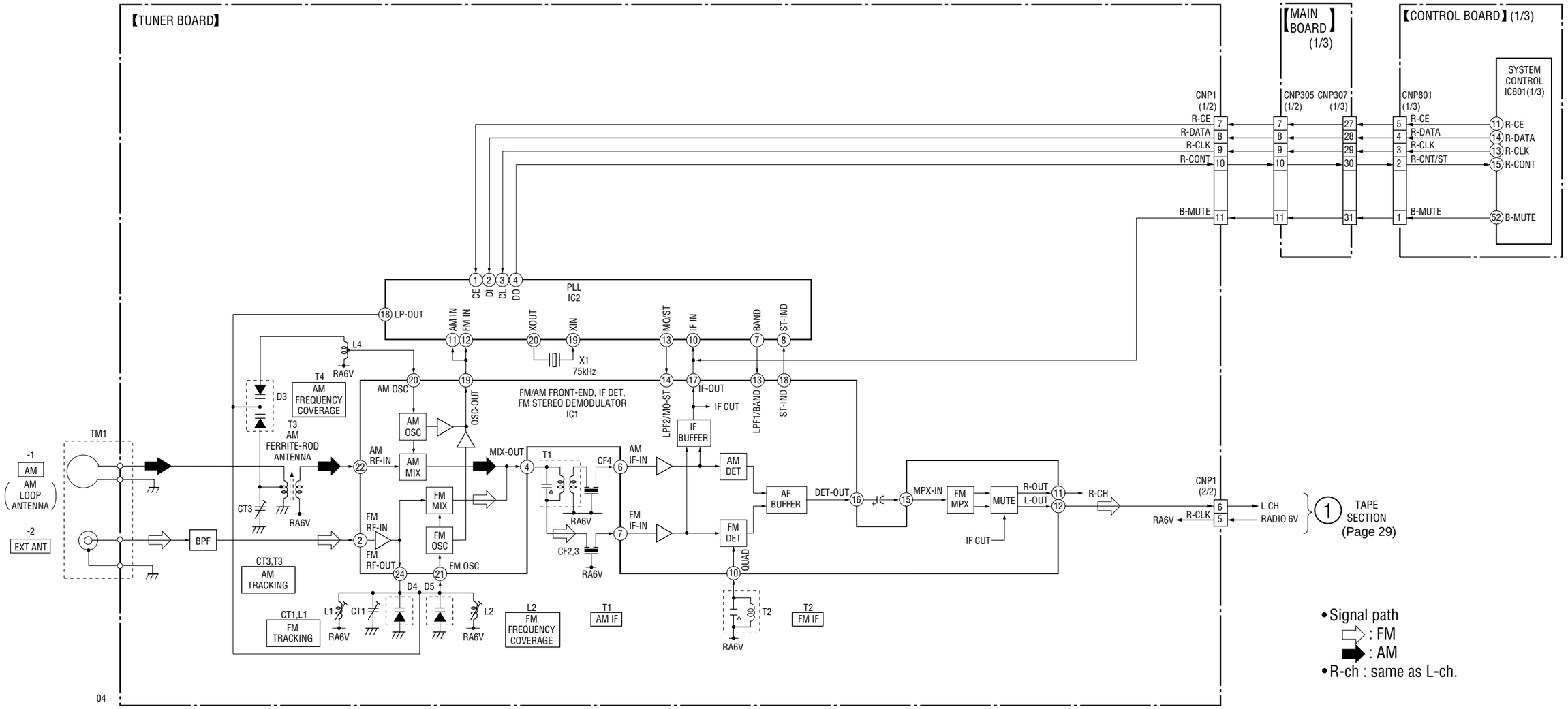
– Main Section –



– Speaker (L) Section –

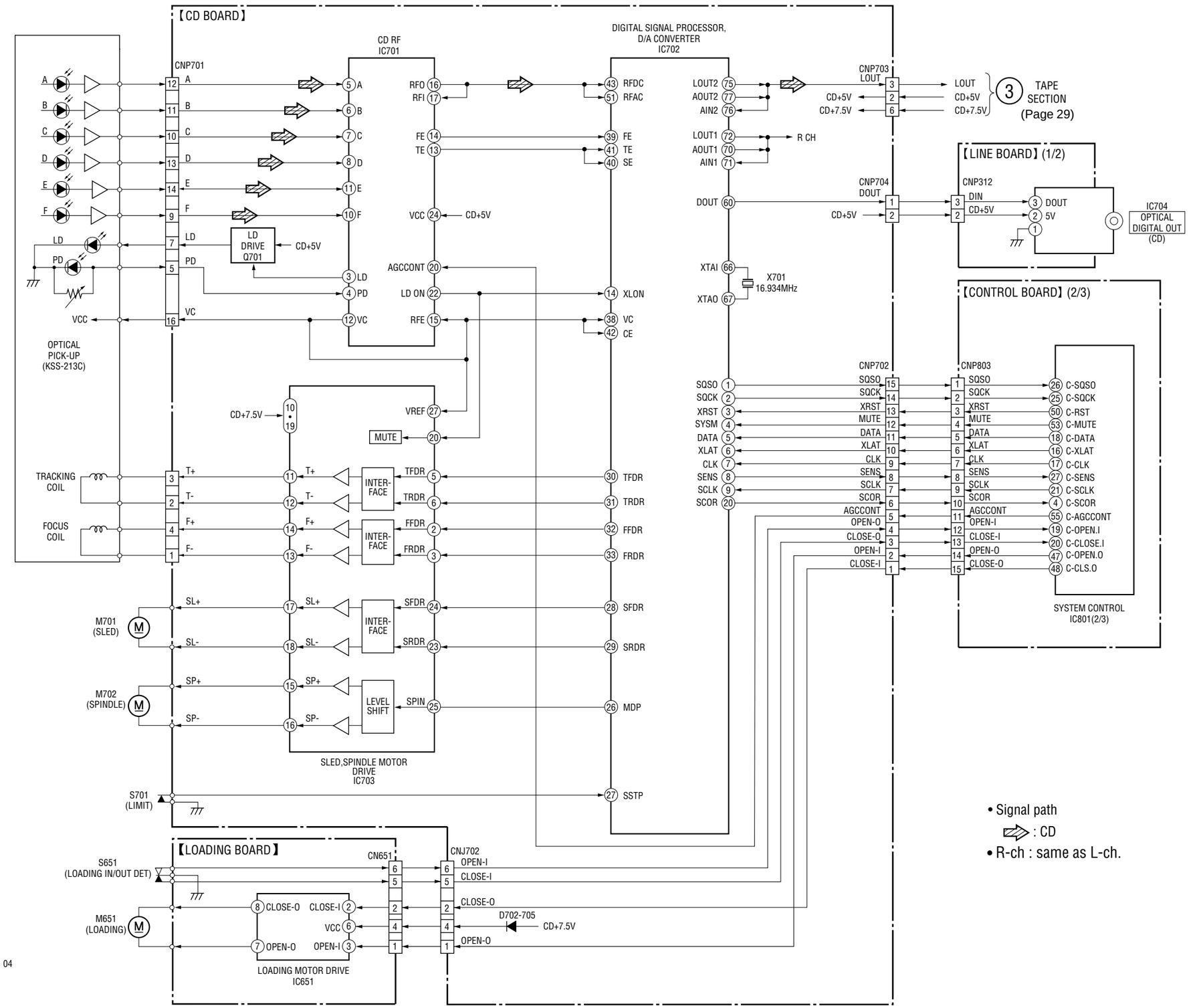


6-3. BLOCK DIAGRAM — TUNER SECTION —



- Signal path
  - ⇨ : FM
  - ➡ : AM
- R-ch : same as L-ch.

6-4. BLOCK DIAGRAM — CD SECTION —



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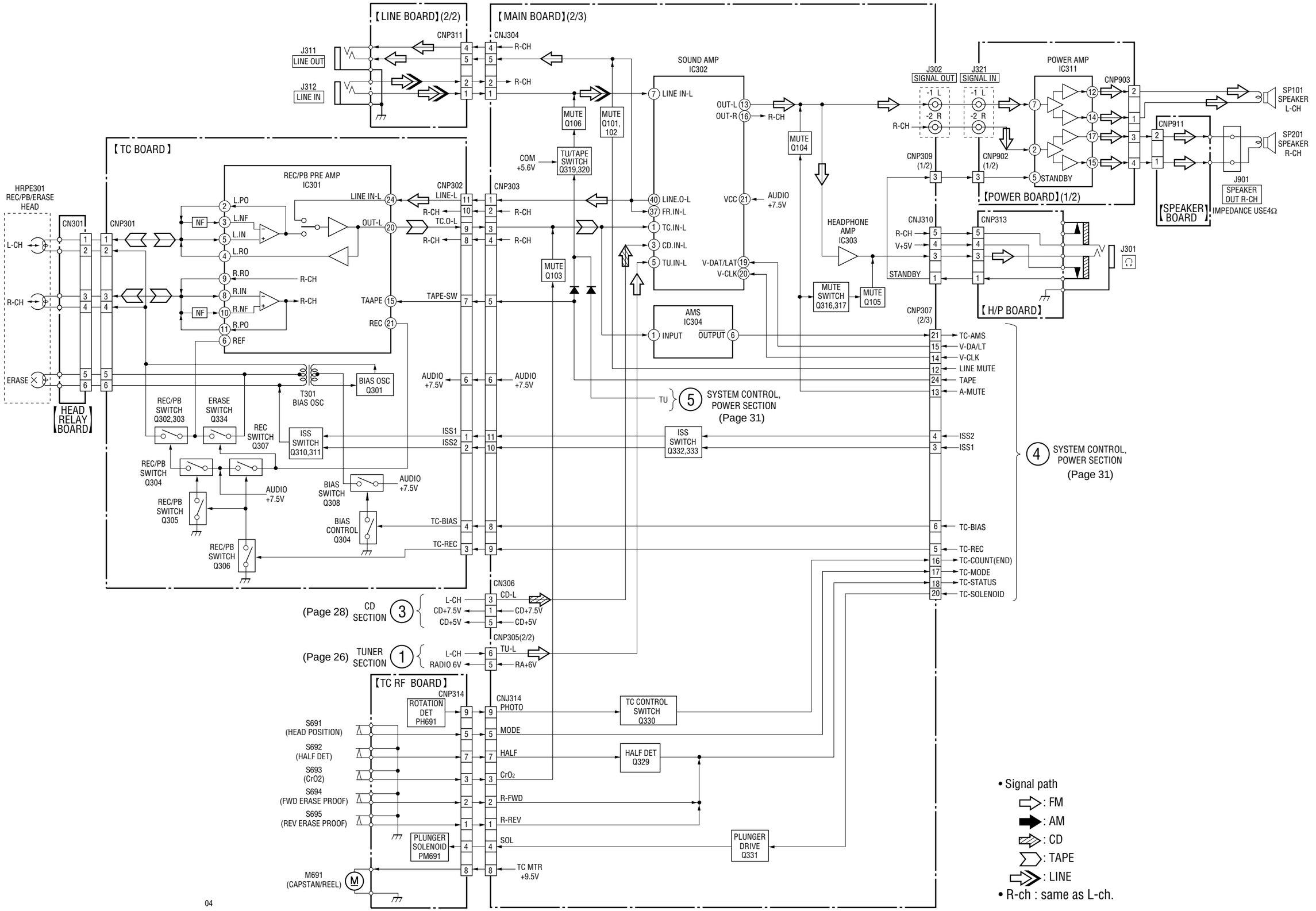
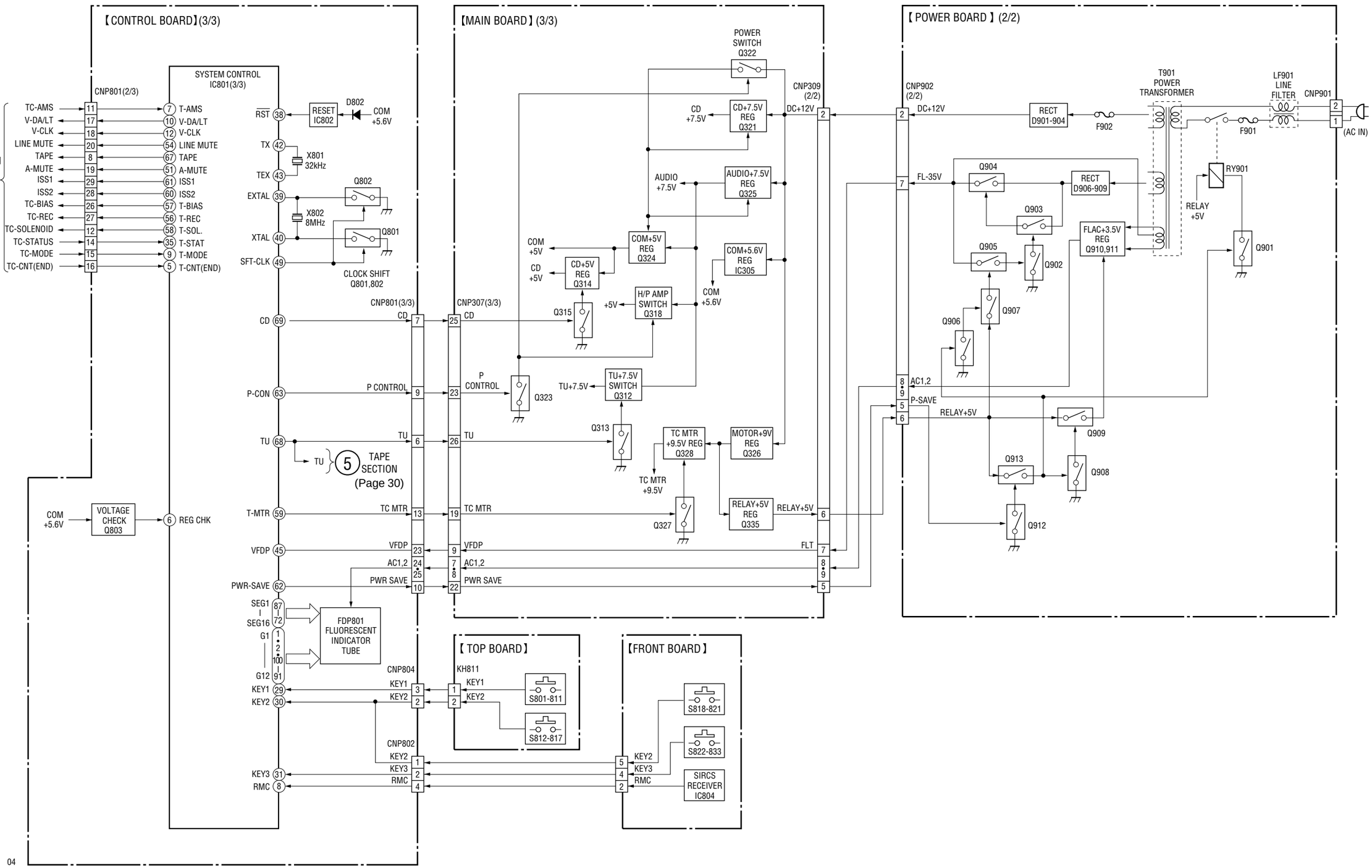
6-5. BLOCK DIAGRAM — TAPE SECTION —

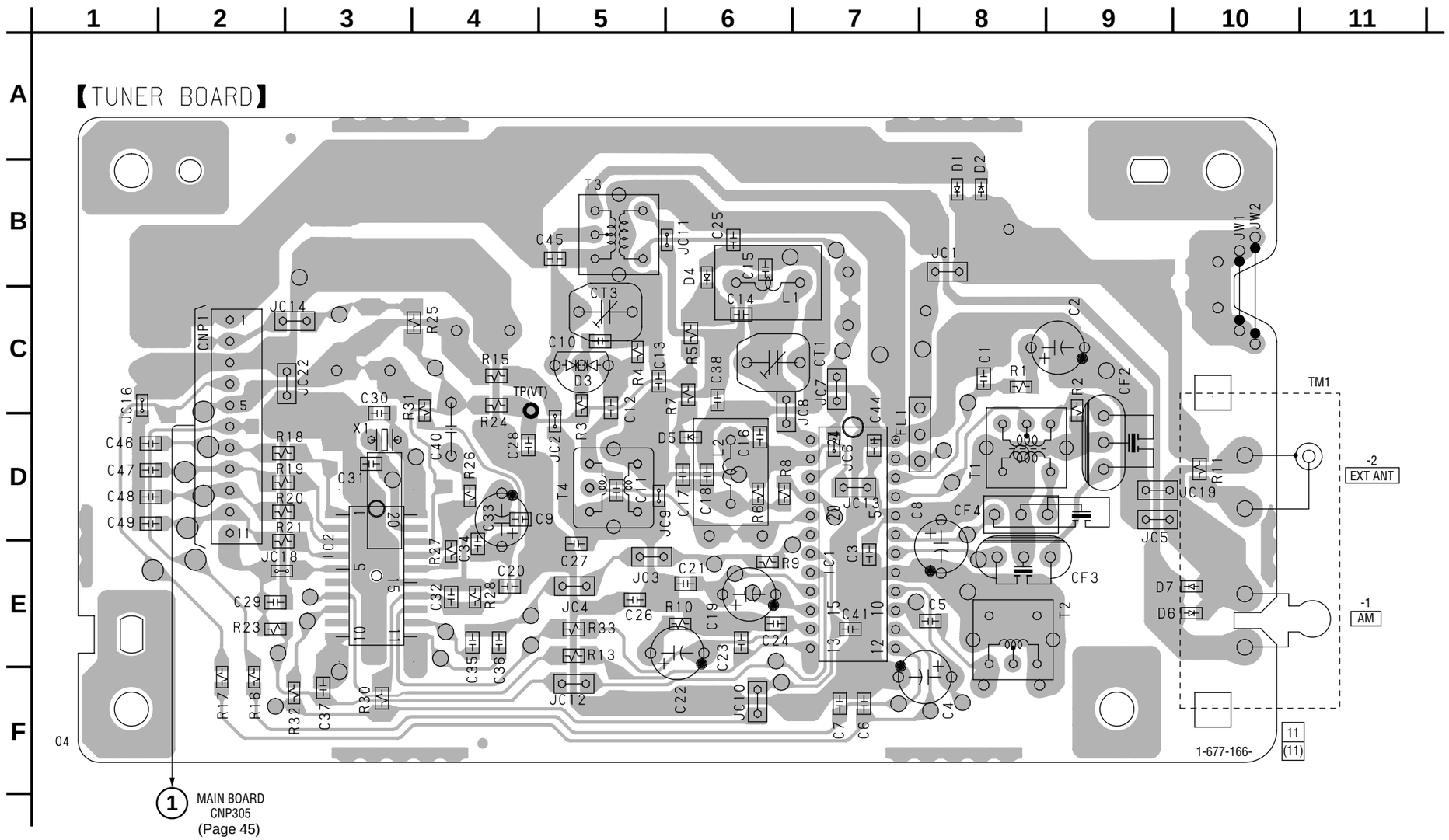


6-6. BLOCK DIAGRAM — SYSTEM CONTROL, POWER SECTION —



04

6-7. PRINTED WIRING BOARD — TUNER SECTION —



- **Semiconductor Location**

Ref. No.	Location
D1	B-8
D2	B-8
D3	C-5
D4	B-6
D5	D-6
IC1	E-7
IC2	D-3

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS. (In addition to this, the necessary note is printed in each block.)

for Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

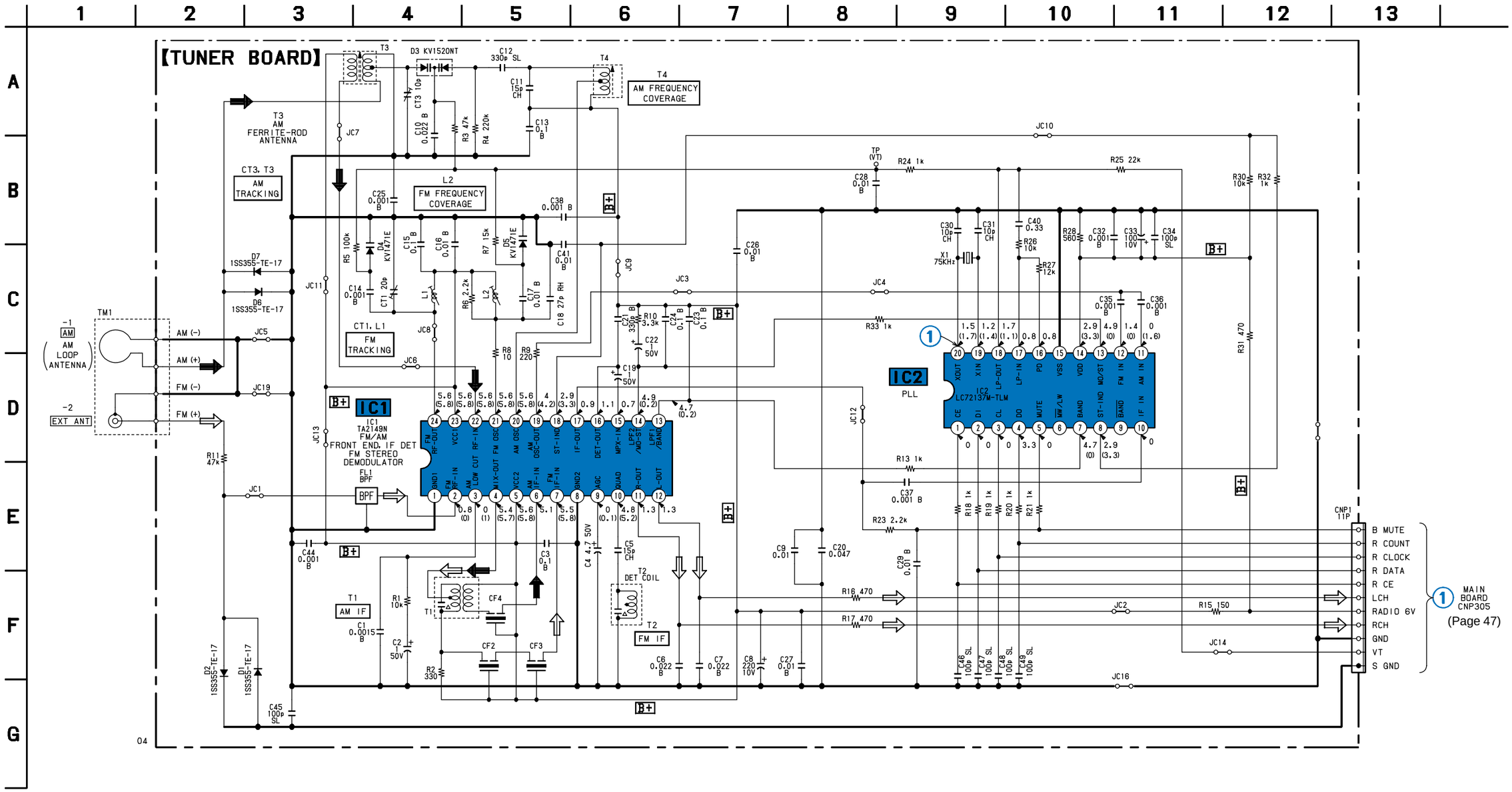
- B+ : B+ Line.
- B− : B– Line.
- ▭ : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : AM
  - ⇨ : LINE
  - ⇨ : PB
  - ⇨ : REC
  - ⇨ : CD
  - ⇨ : digital out

for Printed Wiring Boards:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▨ : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

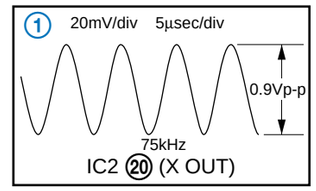
Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

6-8. SCHEMATIC DIAGRAM — TUNER SECTION — • Refer to page 65 for IC Block Diagrams. Refer to page 33 for Note.



• Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : FM
( ) : AM

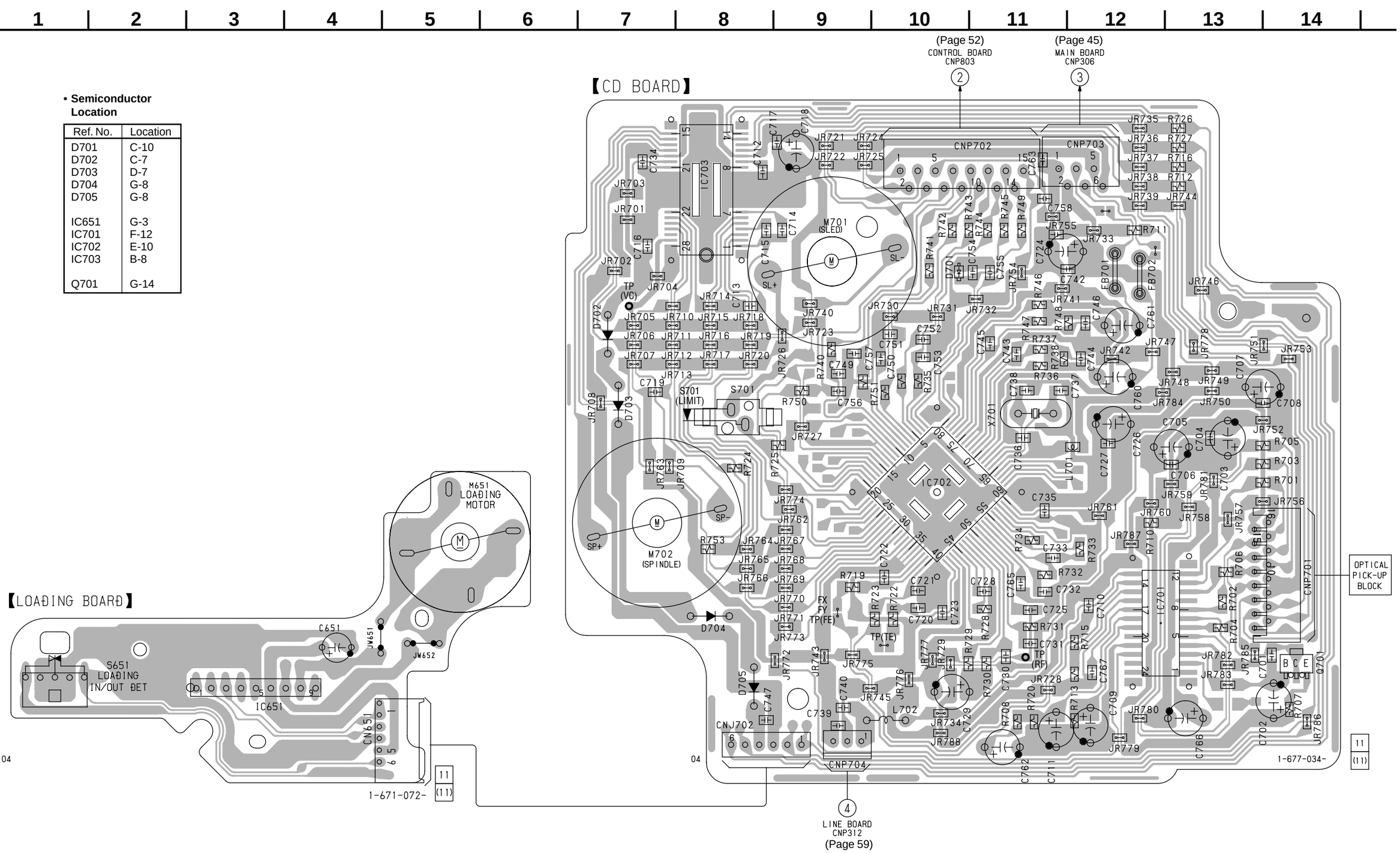
• Waveform



6-9. PRINTED WIRING BOARDS — CD SECTION — • Refer to page 34 for Note.

• **Semiconductor Location**

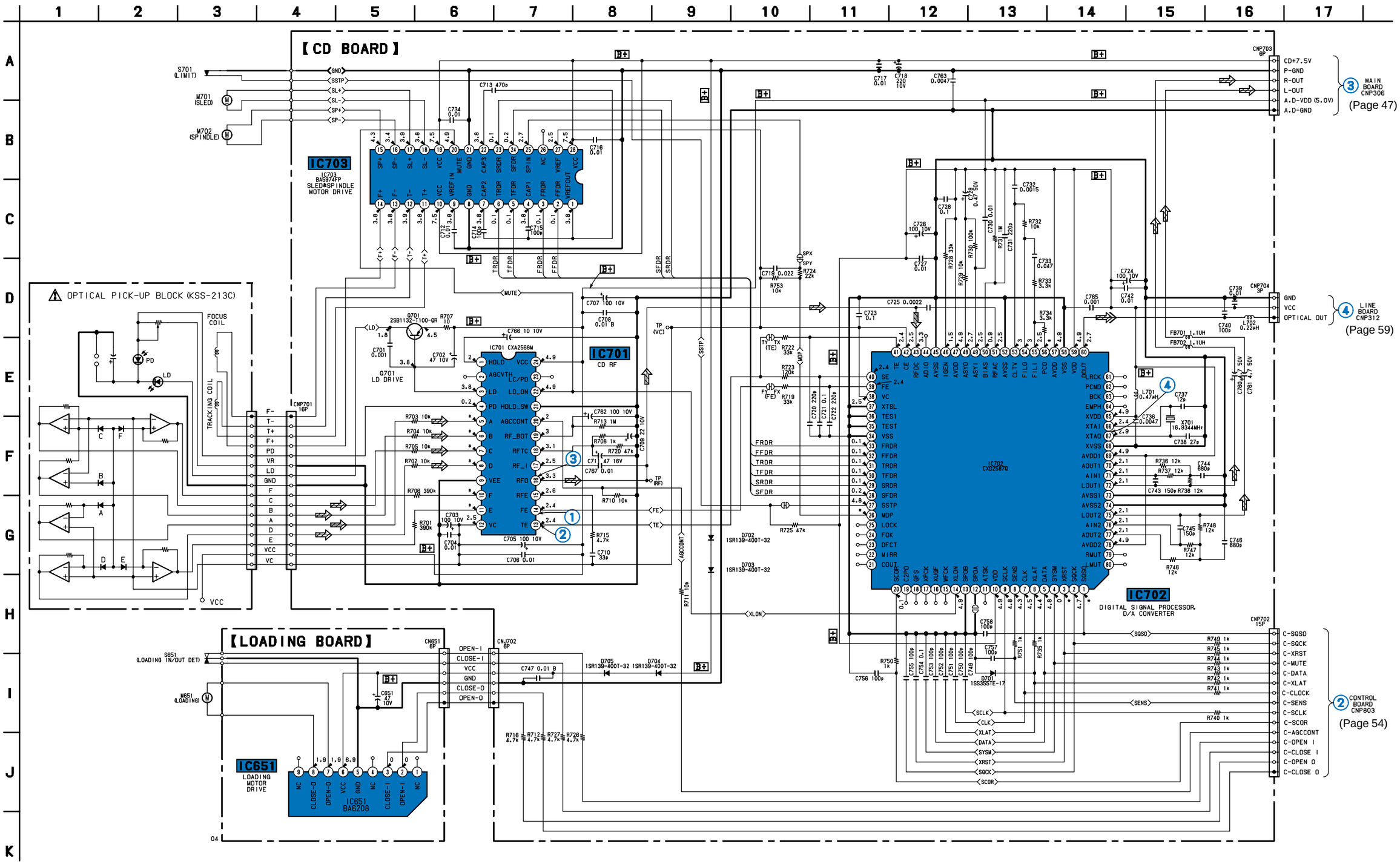
Ref. No.	Location
D701	C-10
D702	C-7
D703	D-7
D704	G-8
D705	G-8
IC651	G-3
IC701	F-12
IC702	E-10
IC703	B-8
Q701	G-14



• **Waveforms**

① 2mV/div 20µsec/div	② 2mV/div 20µsec/div	③ 50mV/div 0.5µsec/div	④ 0.2V/div 50nsec/div
Approx. 50mVp-p	Approx. 50mVp-p	1.1-1.3Vp-p	4.8Vp-p, 16.9344MHz
IC701 ⑭ (FE)	IC701 ⑬ (TE)	IC701 ⑯ (RFO)	IC702 ⑰ (XTAO)

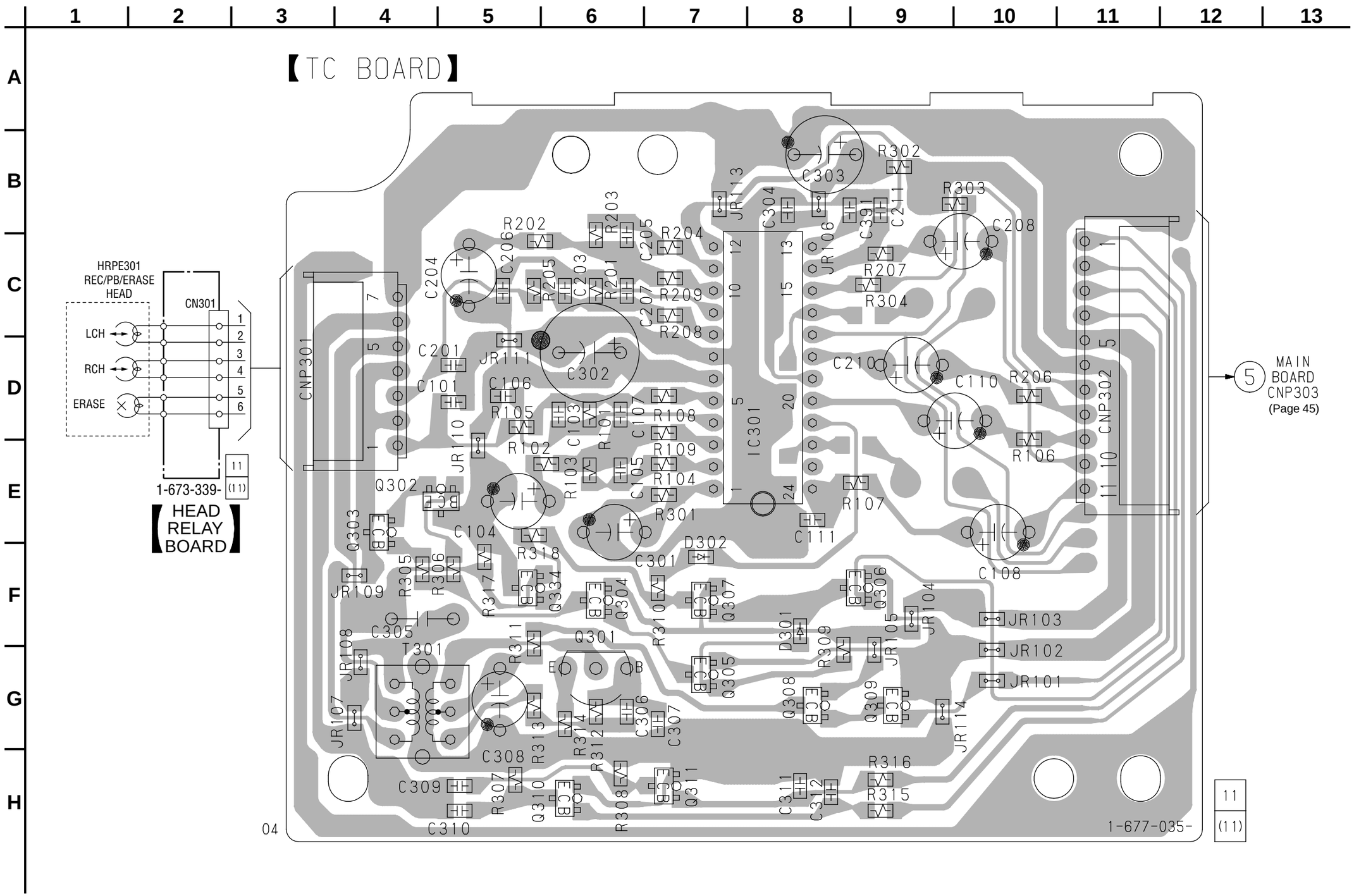
6-10. SCHEMATIC DIAGRAM — CD SECTION — • Refer to page 66 for IC Block Diagrams. Refer to page 38 for Waveforms. Refer to page 33 for Note.



- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : CD PLAY
  ∗ : Impossible to measure

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

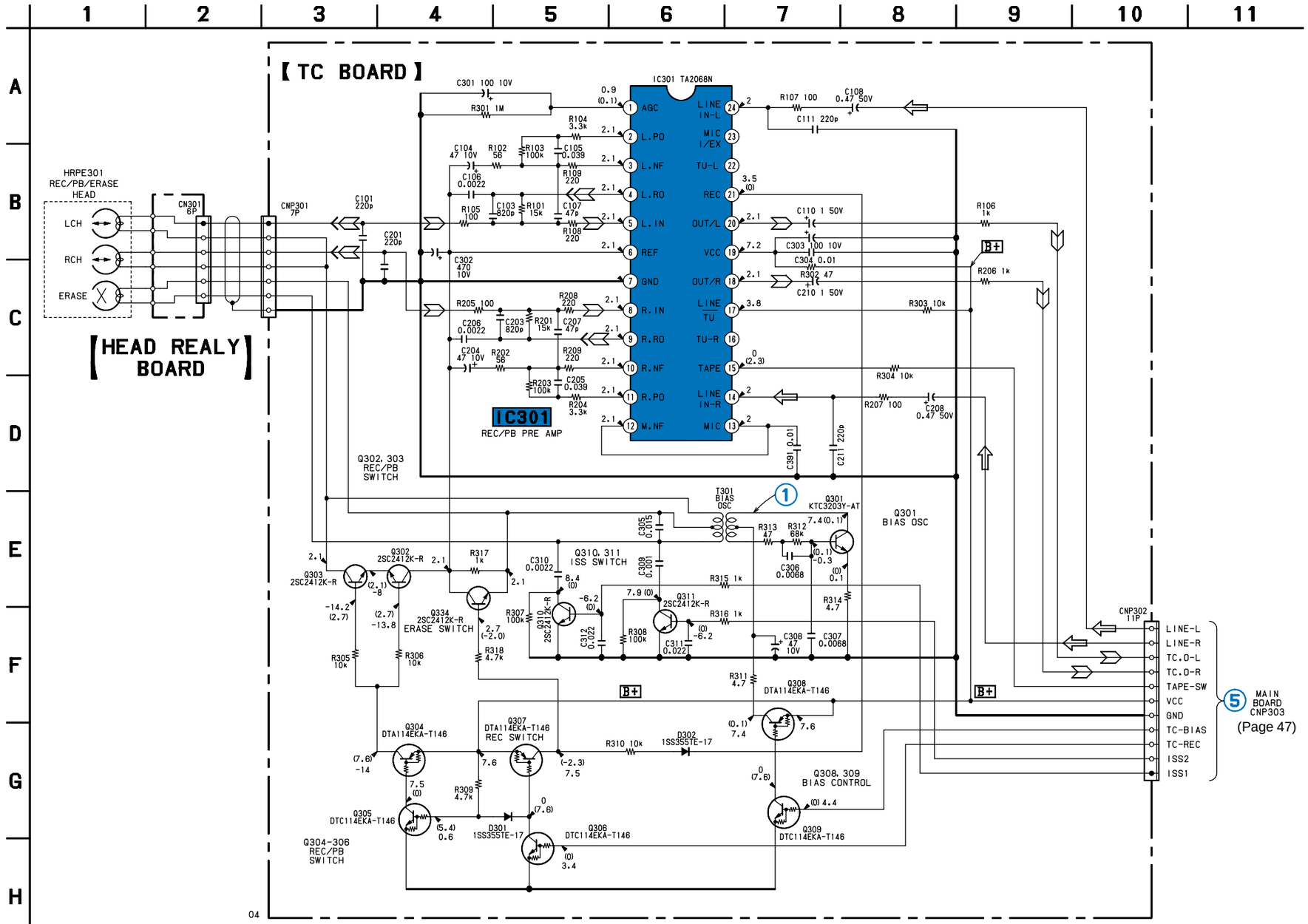
6-11. PRINTED WIRING BOARD — TC SECTION — • Refer to page 34 for Note.



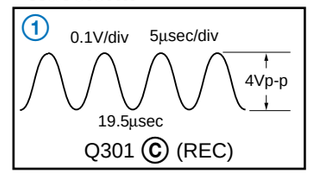
- **Semiconductor Location**

Ref. No.	Location
D301	F-7
D302	F-6
IC301	D-7
Q301	F-5
Q302	E-3
Q303	E-3
Q304	F-5
Q305	G-6
Q306	F-8
Q307	F-6
Q308	G-7
Q309	G-8
Q310	H-5
Q311	H-6
Q334	F-5

6-12. SCHEMATIC DIAGRAM — TC SECTION — • Refer to page 67 for IC Block Diagram. Refer to page 33 for Note.

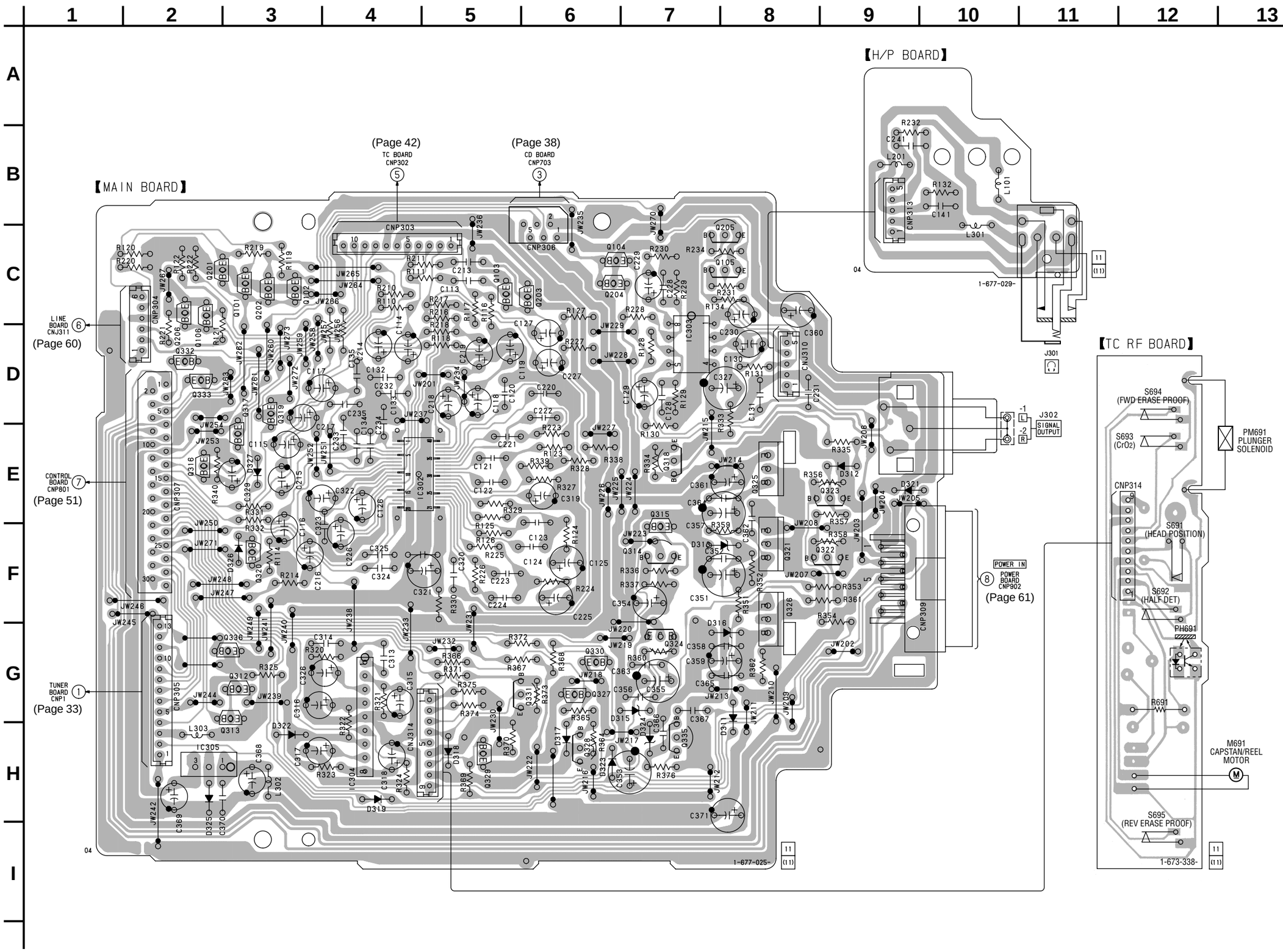


• Waveform



• Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : REC (TAPE)
( ) : PB (TAPE)

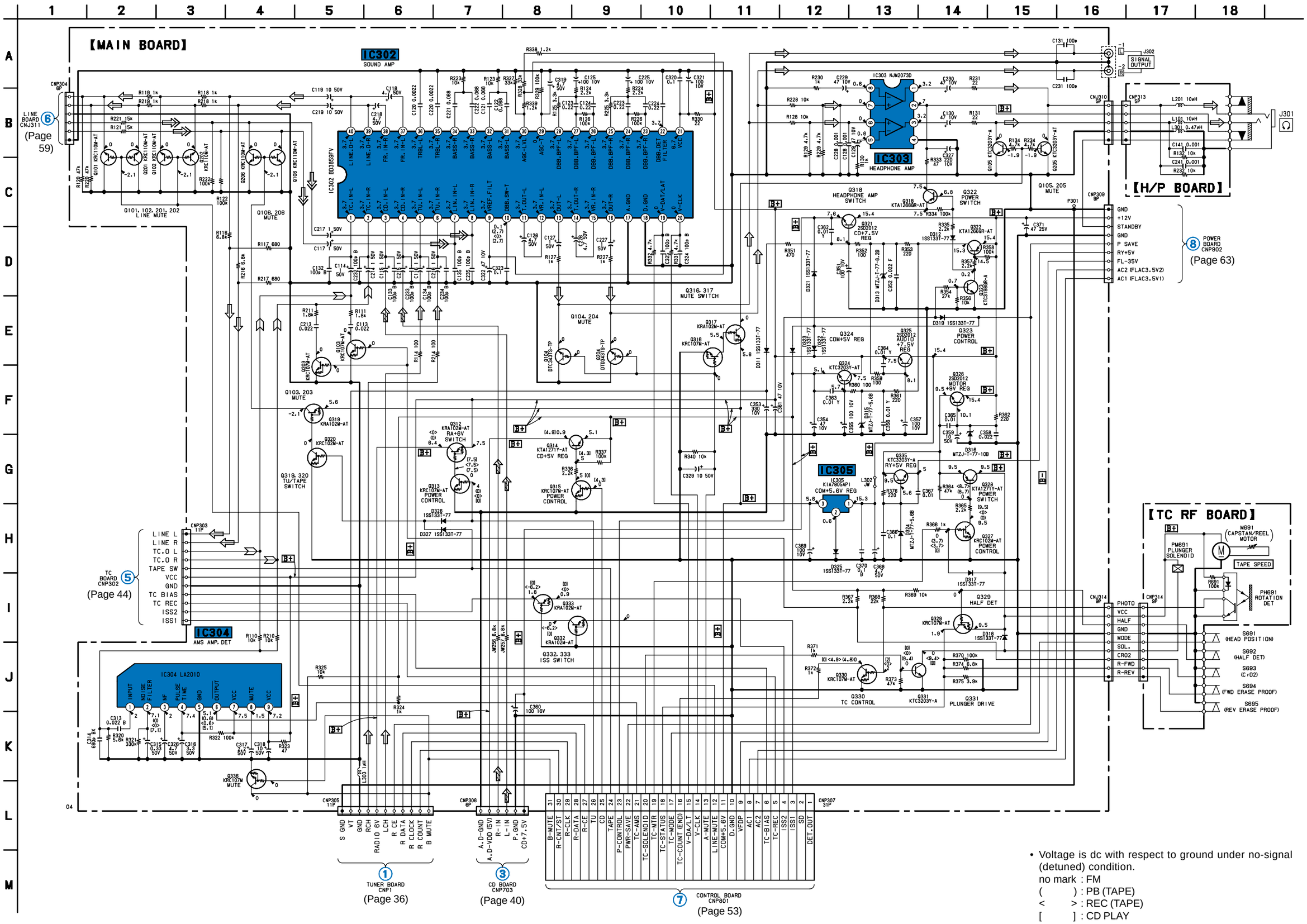
6-13. PRINTED WIRING BOARDS — MAIN SECTION — • Refer to page 34 for Note.



- **Semiconductor Location**

Ref. No.	Location
D311	H-8
D312	E-9
D313	F-8
D315	H-7
D316	G-8
D317	H-6
D318	H-5
D319	H-4
D321	F-10
D322	H-3
D323	H-7
D324	H-7
D325	I-3
D326	F-3
D327	E-3
IC302	F-5
IC303	D-7
IC304	H-4
IC305	H-3
Q101	C-3
Q102	C-3
Q103	C-5
Q104	C-7
Q105	C-8
Q106	D-2
Q201	C-2
Q202	C-3
Q203	C-6
Q204	C-6
Q205	C-8
Q206	D-2
Q312	G-3
Q313	H-3
Q314	F-7
Q315	E-7
Q316	E-2
Q317	D-3
Q318	E-7
Q319	D-3
Q320	F-3
Q321	F-8
Q322	F-9
Q323	E-9
Q324	G-7
Q325	E-8
Q326	F-8
Q327	G-6
Q328	H-6
Q329	H-5
Q330	G-6
Q331	G-5
Q332	D-2
Q333	D-2
Q335	H-7
Q336	G-3

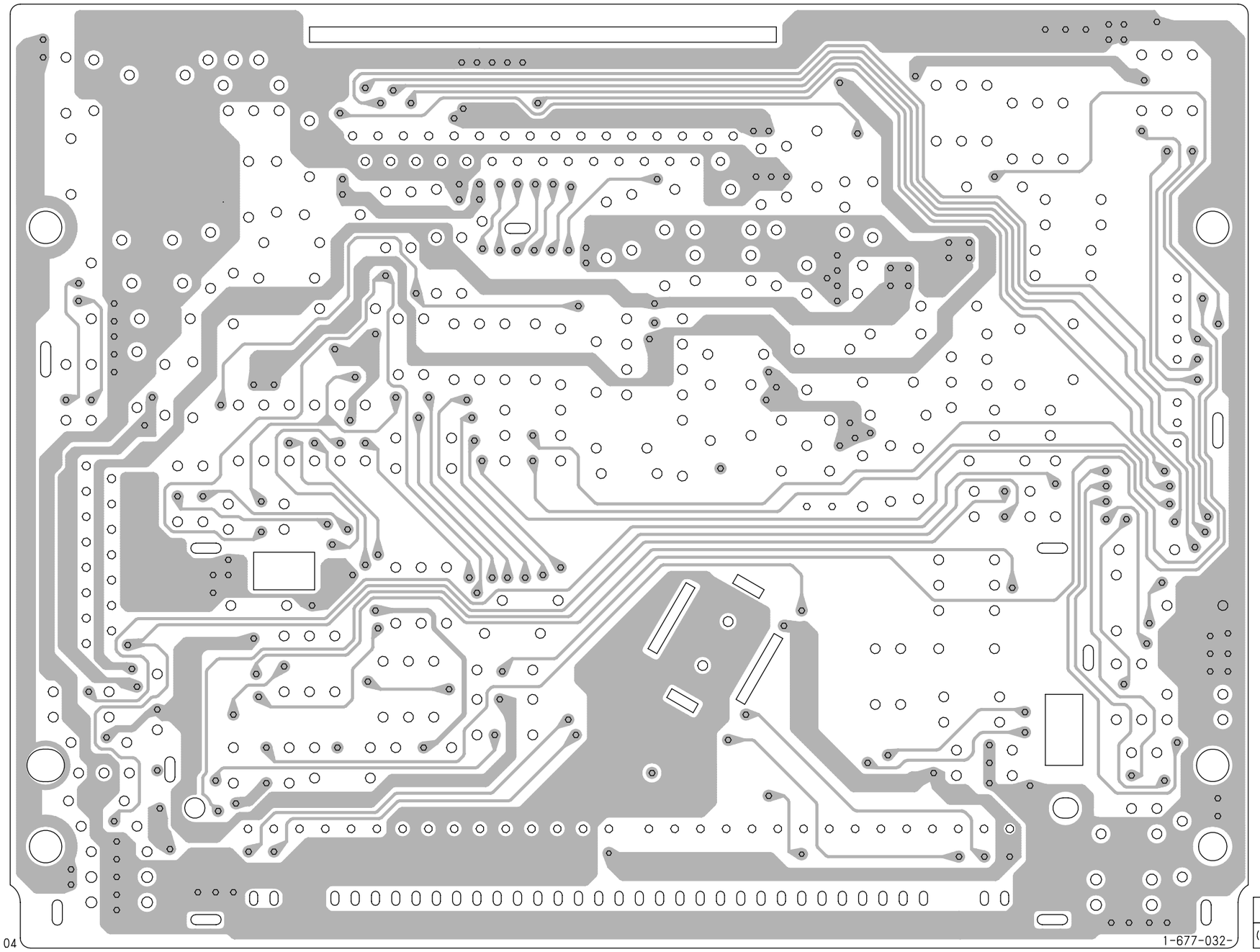
6-14. SCHEMATIC DIAGRAM — MAIN SECTION — • Refer to page 68 for IC Block Diagrams. Refer to page 33 for Note.



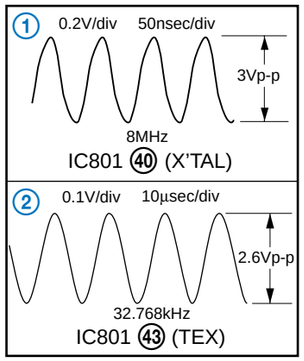
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : PB (TAPE)
  < > : REC (TAPE)
  [ ] : CD PLAY

6-15. PRINTED WIRING BOARD — CONTROL SECTION — • Refer to page 34 for Note.

【CONTROL BOARD】(SIDE A)

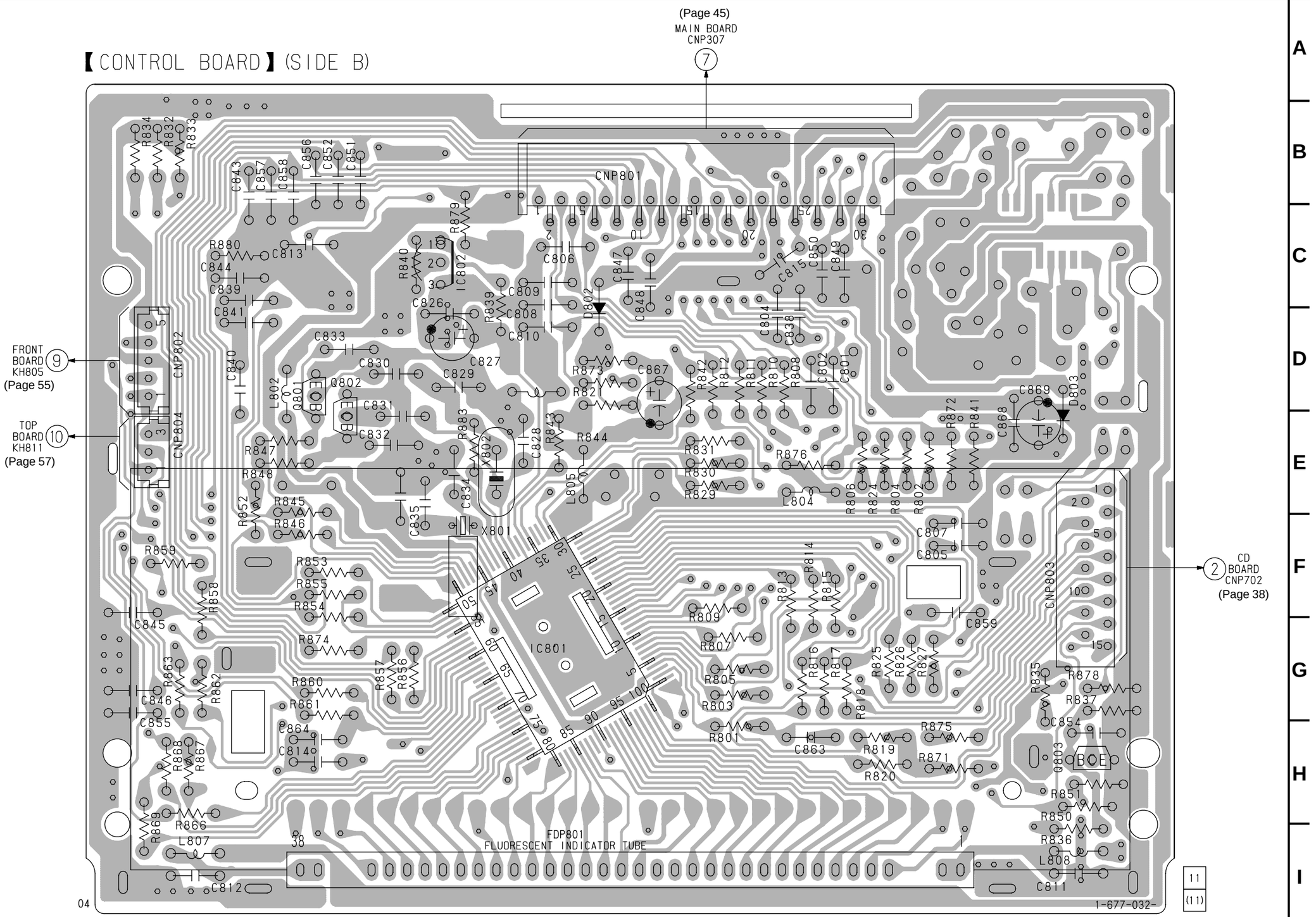


• Waveforms



• **Refer to page 34 for Note.**

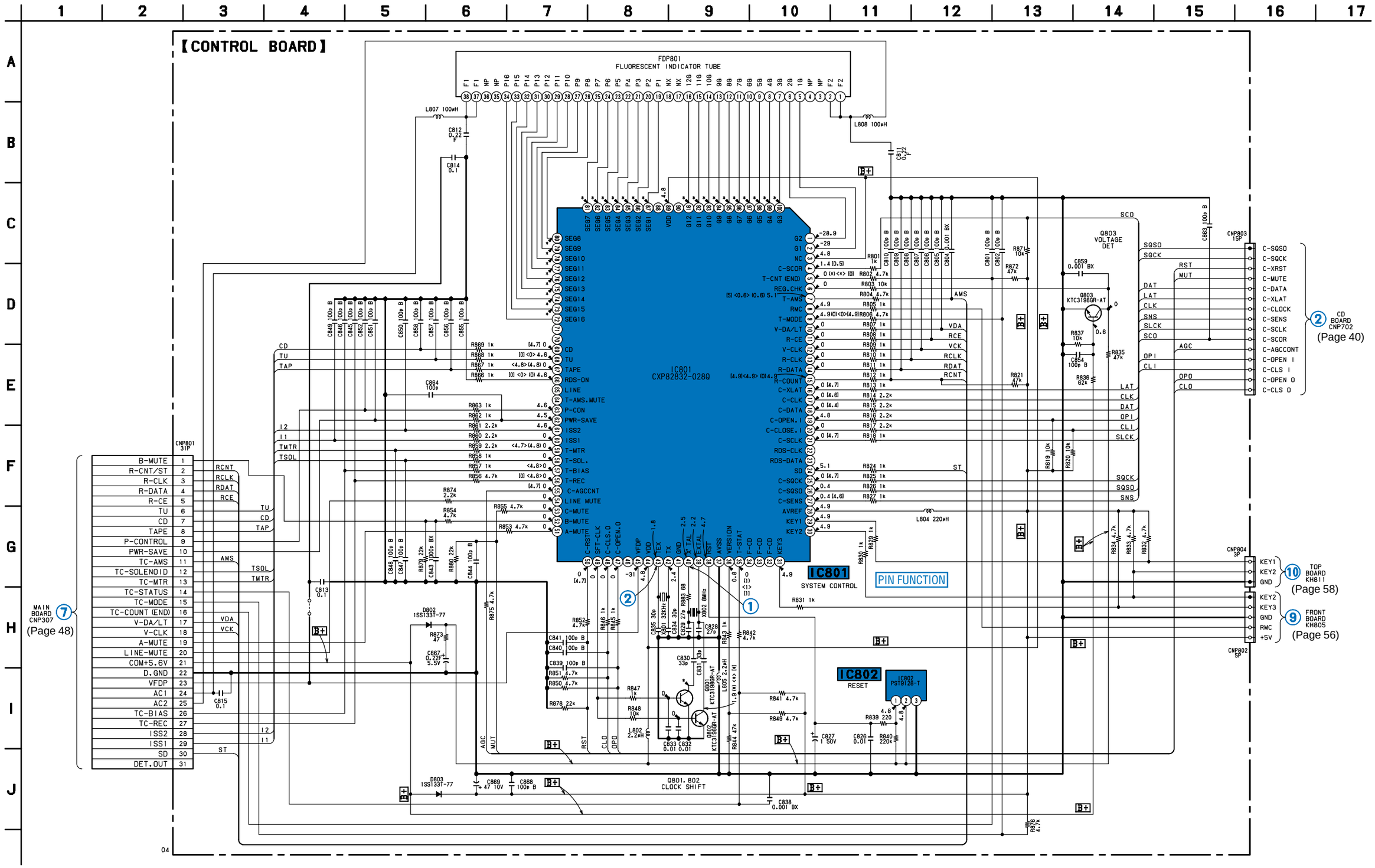
【CONTROL BOARD】(SIDE B)



• **Semiconductor Location**

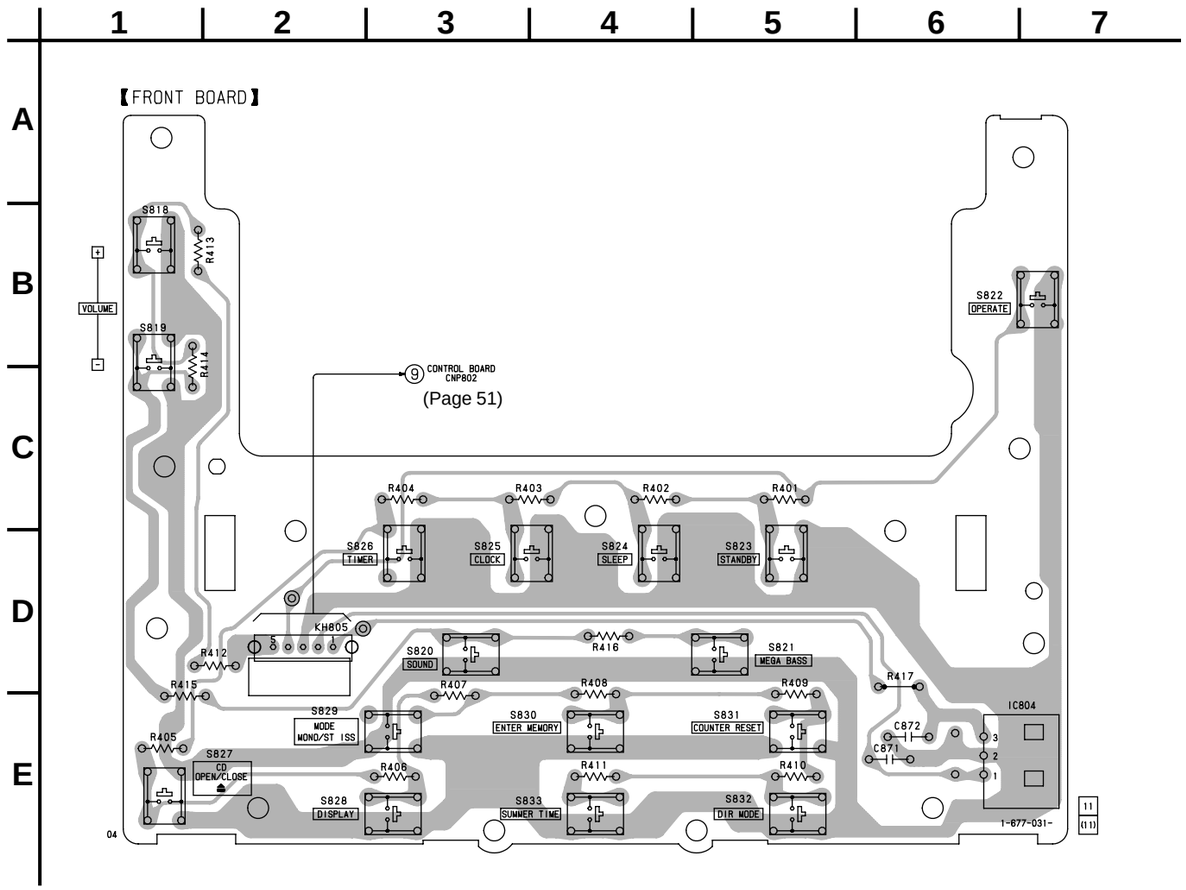
Ref. No.	Location
D802	D-7
D803	D-3
IC801	G-8
IC802	C-9
IC803	C-3
Q801	D-10
Q802	D-10
Q803	H-3
Q811	B-3
Q812	B-4

6-16. SCHEMATIC DIAGRAM — CONTROL SECTION — • Refer to page 50 for Waveforms. Refer to page 33 for Note.

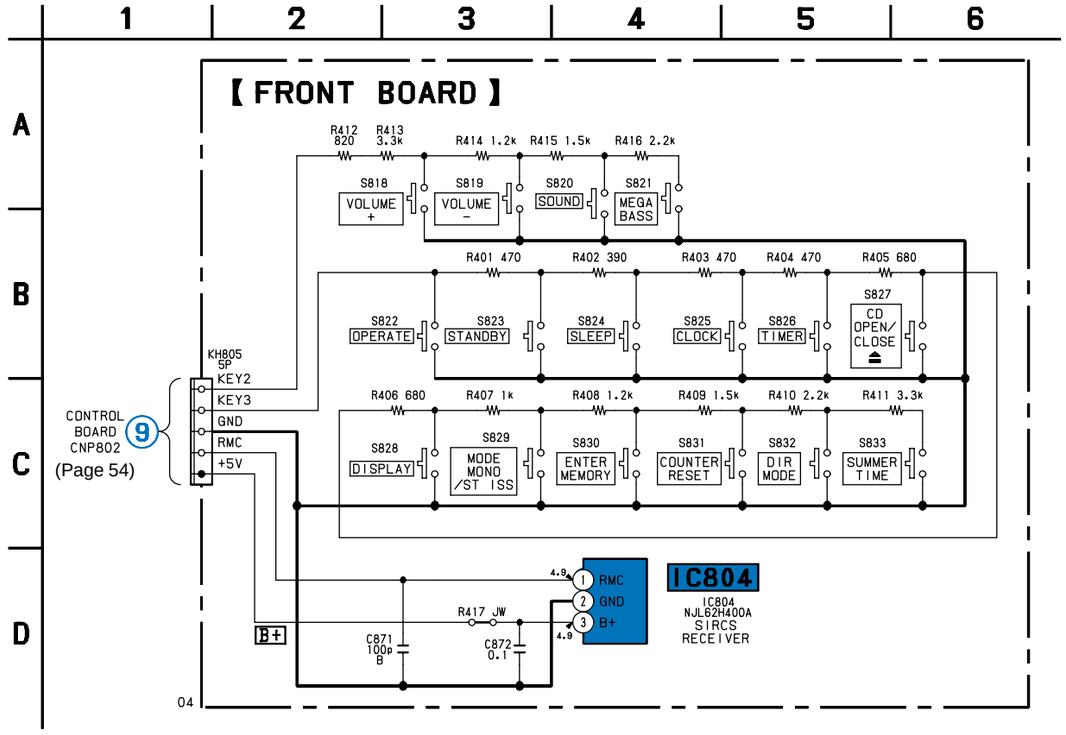


- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : PB (TAPE)
  < > : REC (TAPE)
  [ ] : CD PLAY
  * : Impossible to measure

6-17. PRINTED WIRING BOARD — FRONT SECTION — • Refer to page 34 for Note.

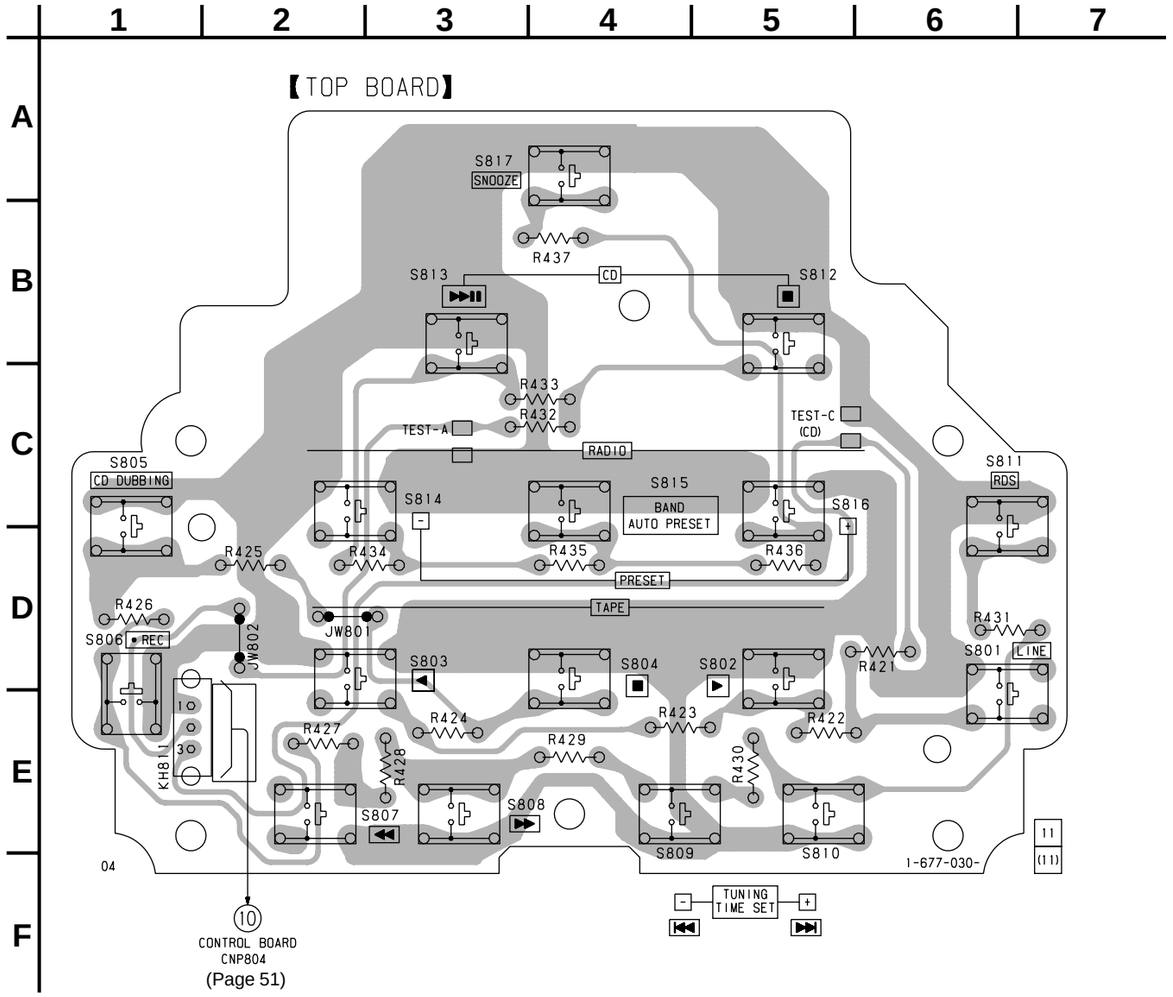


6-18. SCHEMATIC DIAGRAM — FRONT SECTION — • Refer to page 33 for Note.

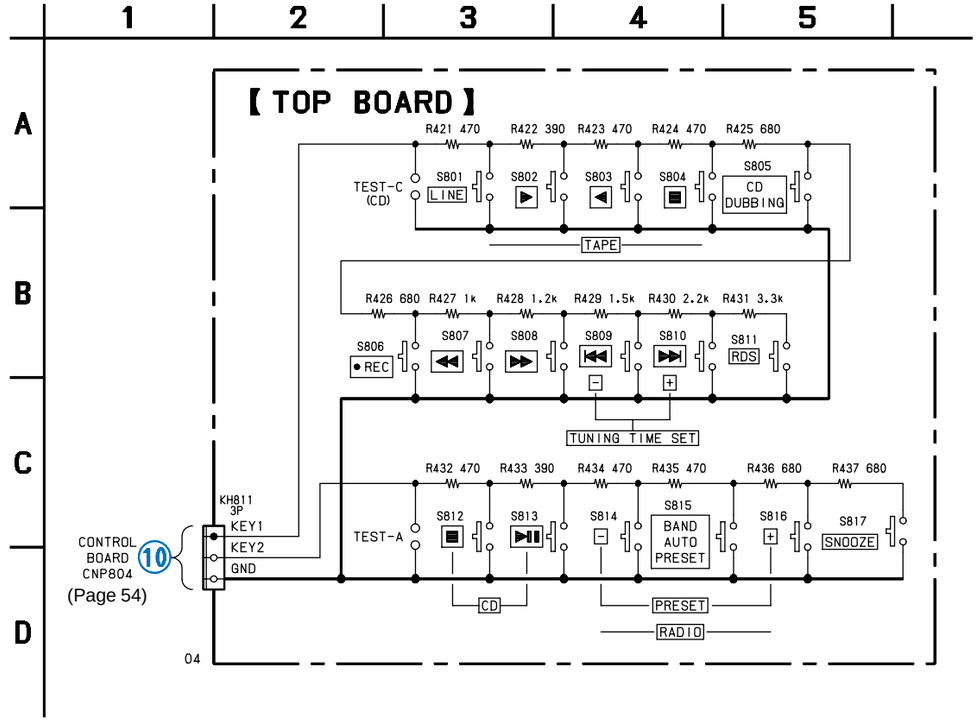


- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

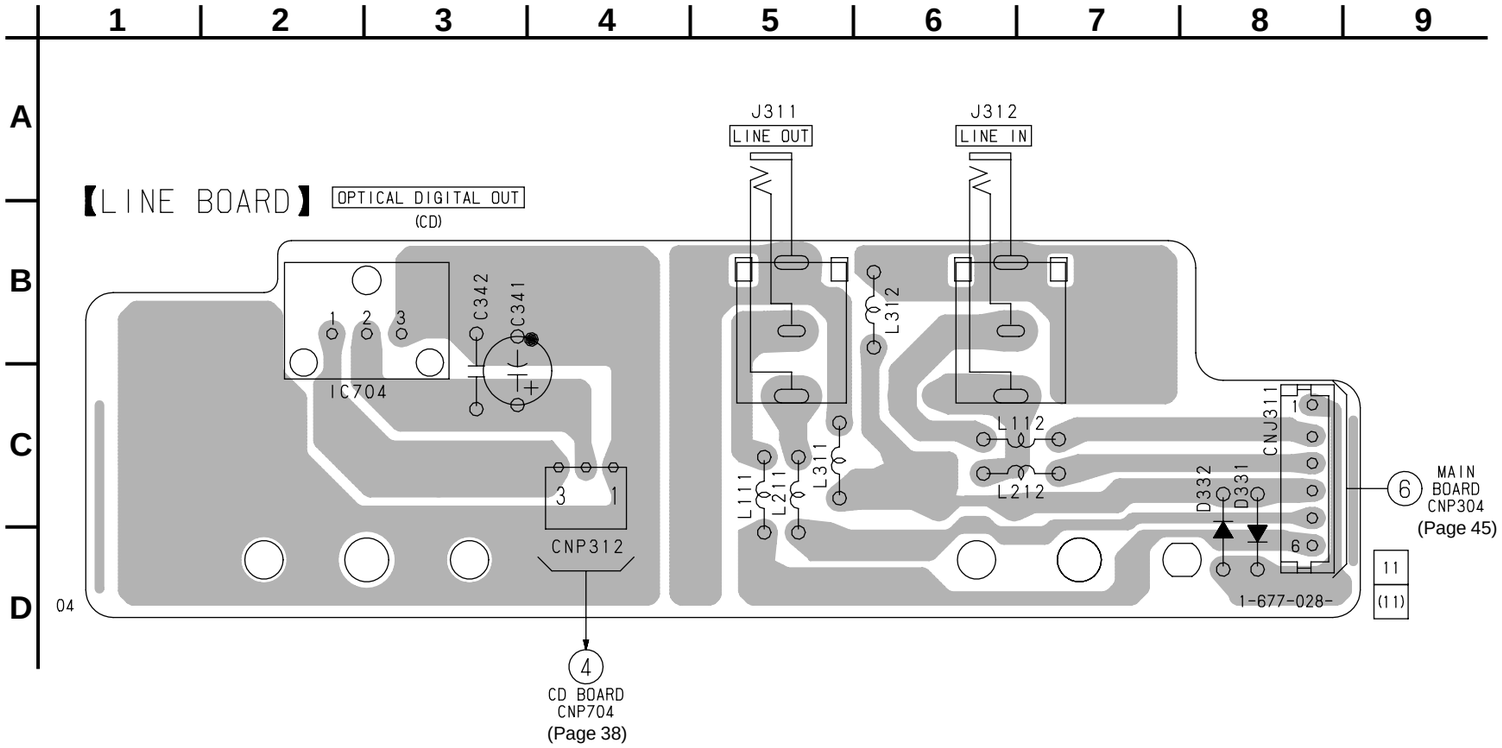
6-19. PRINTED WIRING BOARD — TOP SECTION — • Refer to page 34 for Note.



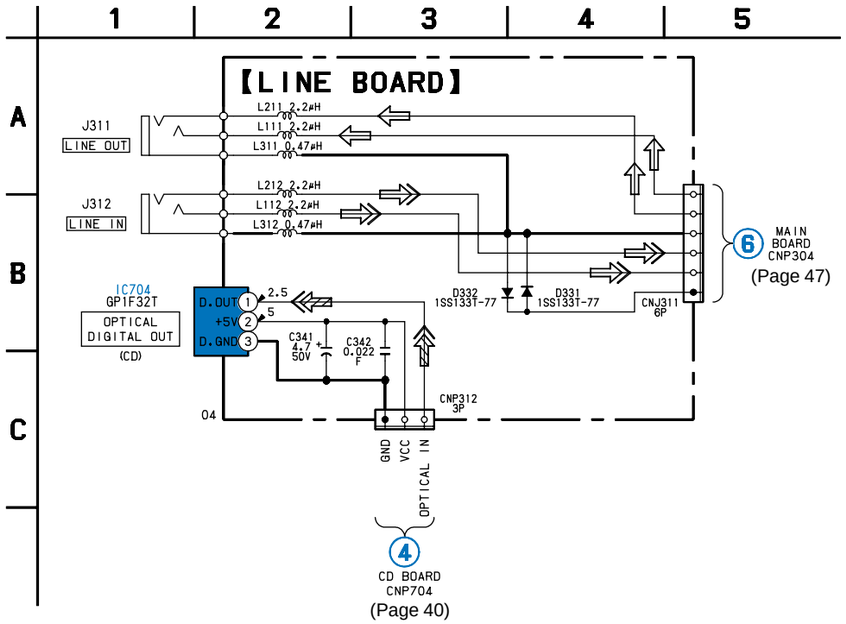
6-20. SCHEMATIC DIAGRAM — TOP SECTION — • Refer to page 33 for Note.



6-21. PRINTED WIRING BOARD — LINE SECTION — • Refer to page 34 for Note.



6-22. SCHEMATIC DIAGRAM — LINE SECTION — • Refer to page 68 for IC Block Diagram. • Refer to page 33 for Note.

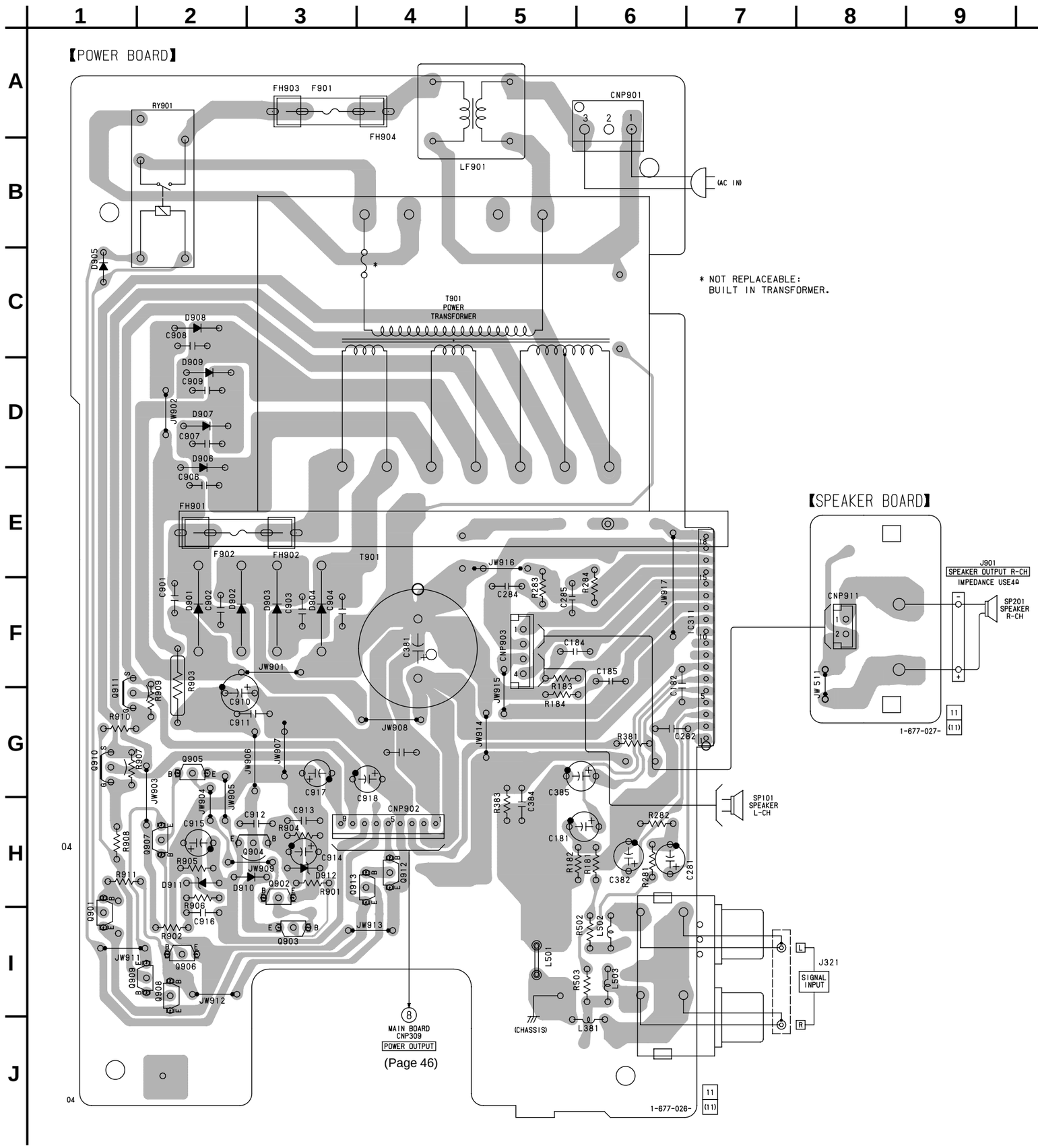


• Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : CD PLAY

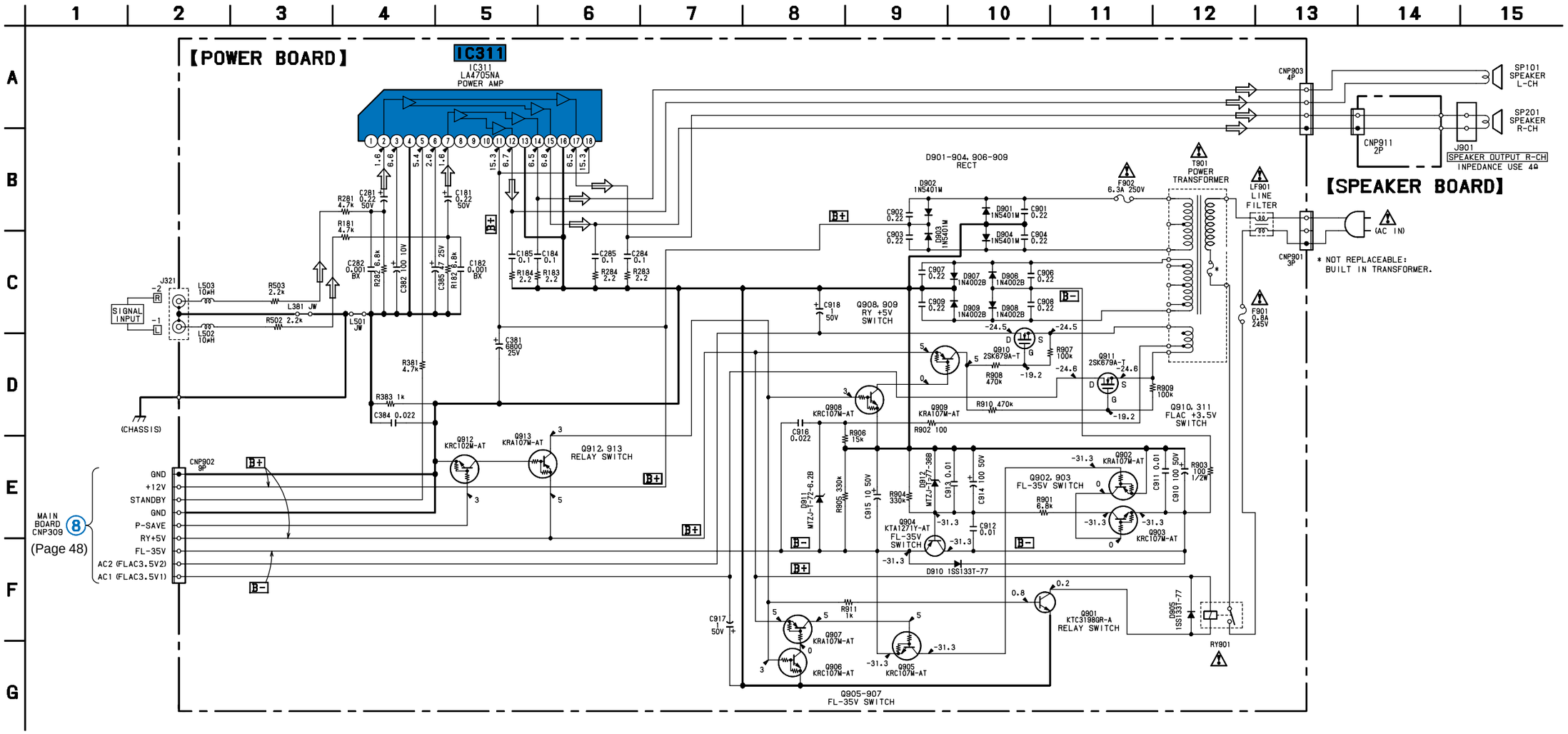
6-23. PRINTED WIRING BOARDS — POWER SECTION — • Refer to page 34 for Note.

• **Semiconductor Location**

Ref. No.	Location
D901	F-2
D902	F-2
D903	F-3
D904	F-3
D905	C-1
D906	D-2
D907	D-2
D908	C-2
D909	D-2
D910	H-2
D911	H-2
D912	H-3
IC311	F-7
Q901	I-1
Q902	H-3
Q903	I-3
Q904	H-2
Q905	G-2
Q906	I-2
Q907	H-2
Q908	I-2
Q909	I-1
Q910	G-1
Q911	G-1
Q912	H-4
Q913	H-3



6-24. SCHEMATIC DIAGRAM — POWER SECTION — • Refer to page 33 for Note.

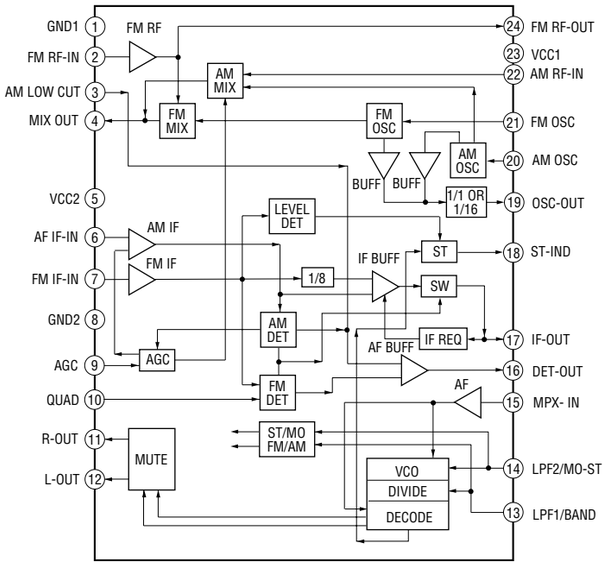


• Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : FM

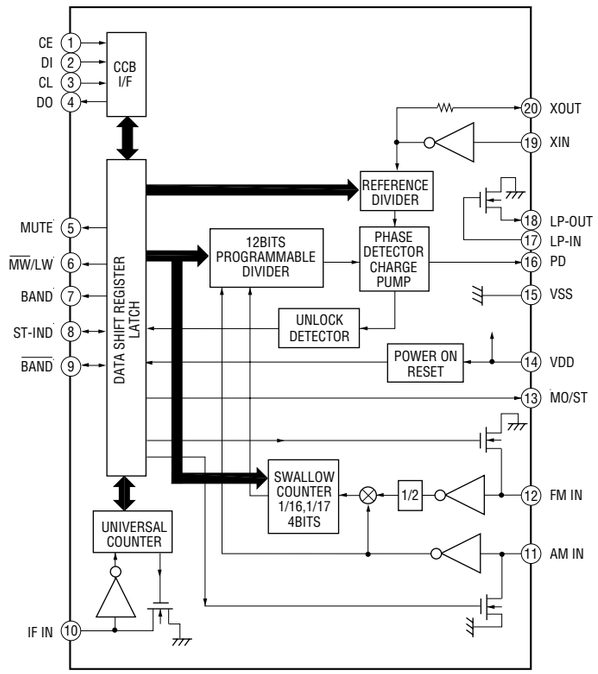
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

6-25. IC BLOCK DIAGRAMS

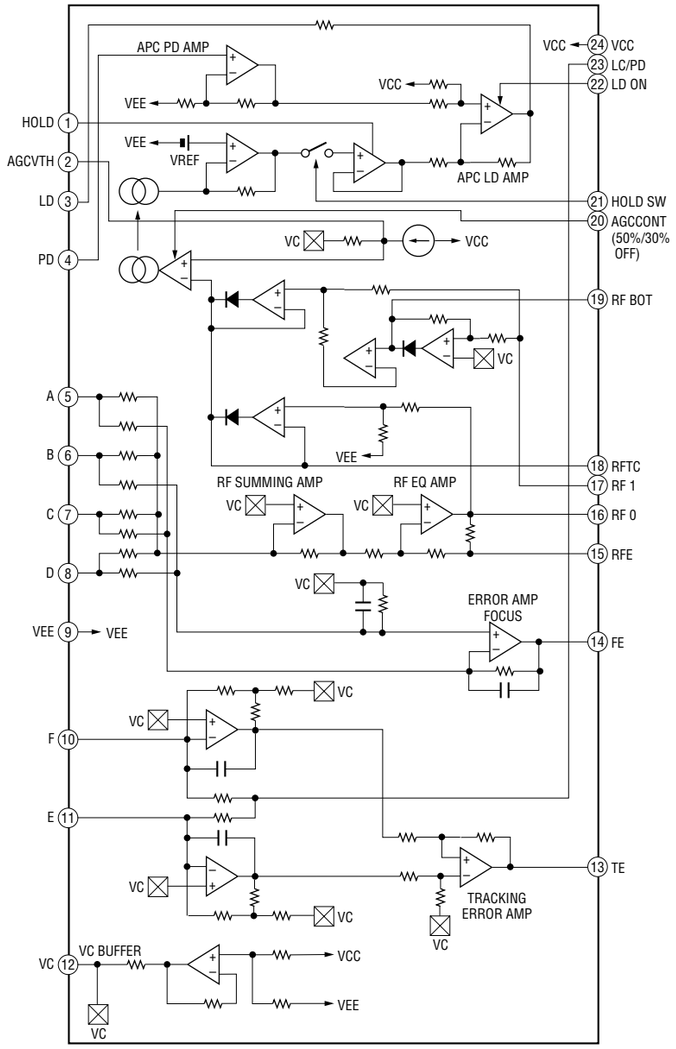
IC1 TA2149N



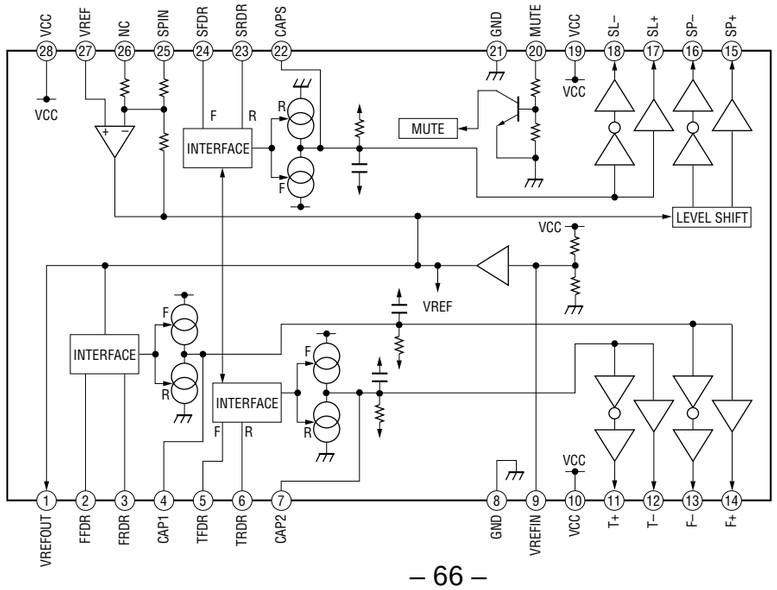
IC2 LC72137M-TLM



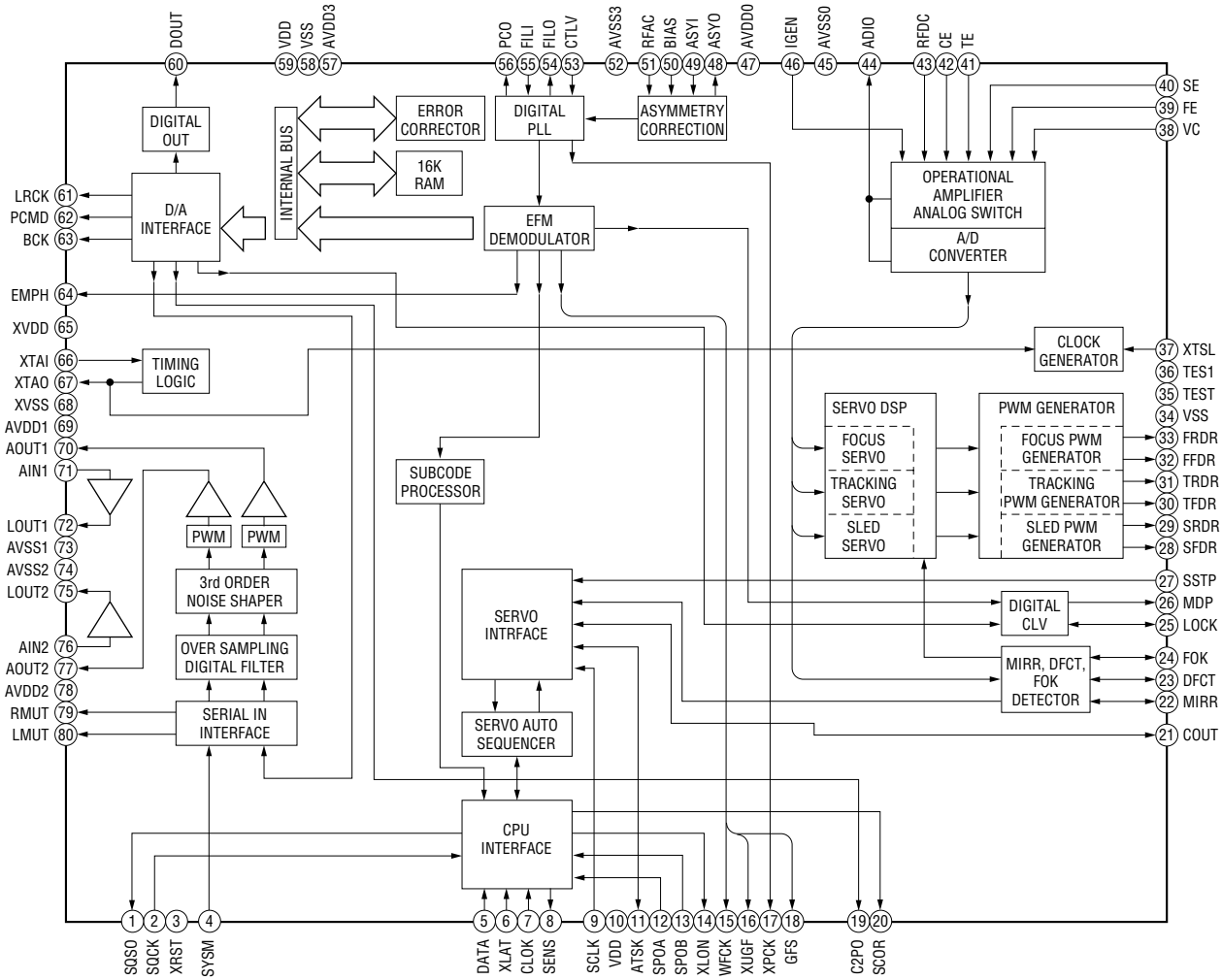
IC701 CXA2568M



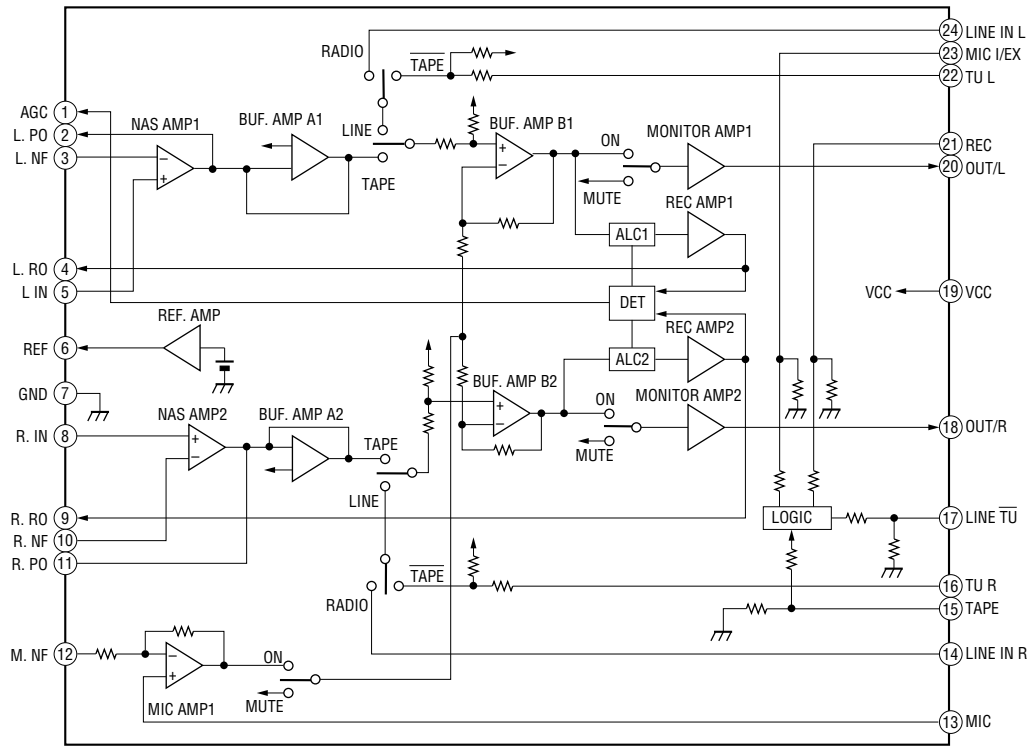
IC703 BA5974FP



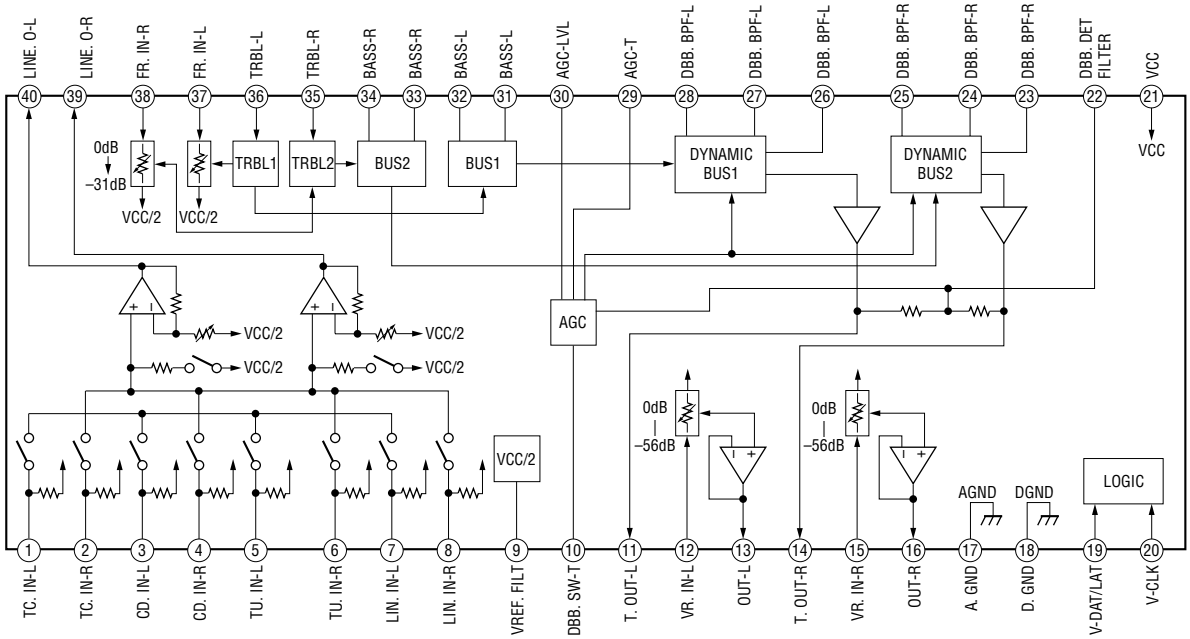
IC702 CXD2587Q



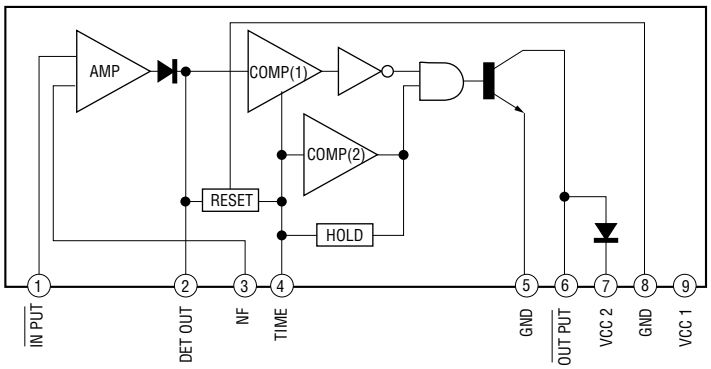
IC301 TA2068N



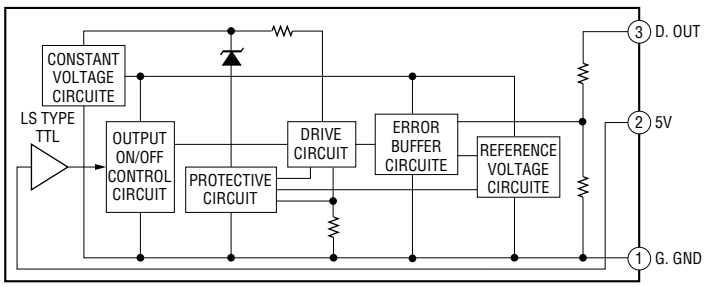
IC302 BD3859FV



IC304 LA2010



IC704 GP1F32T



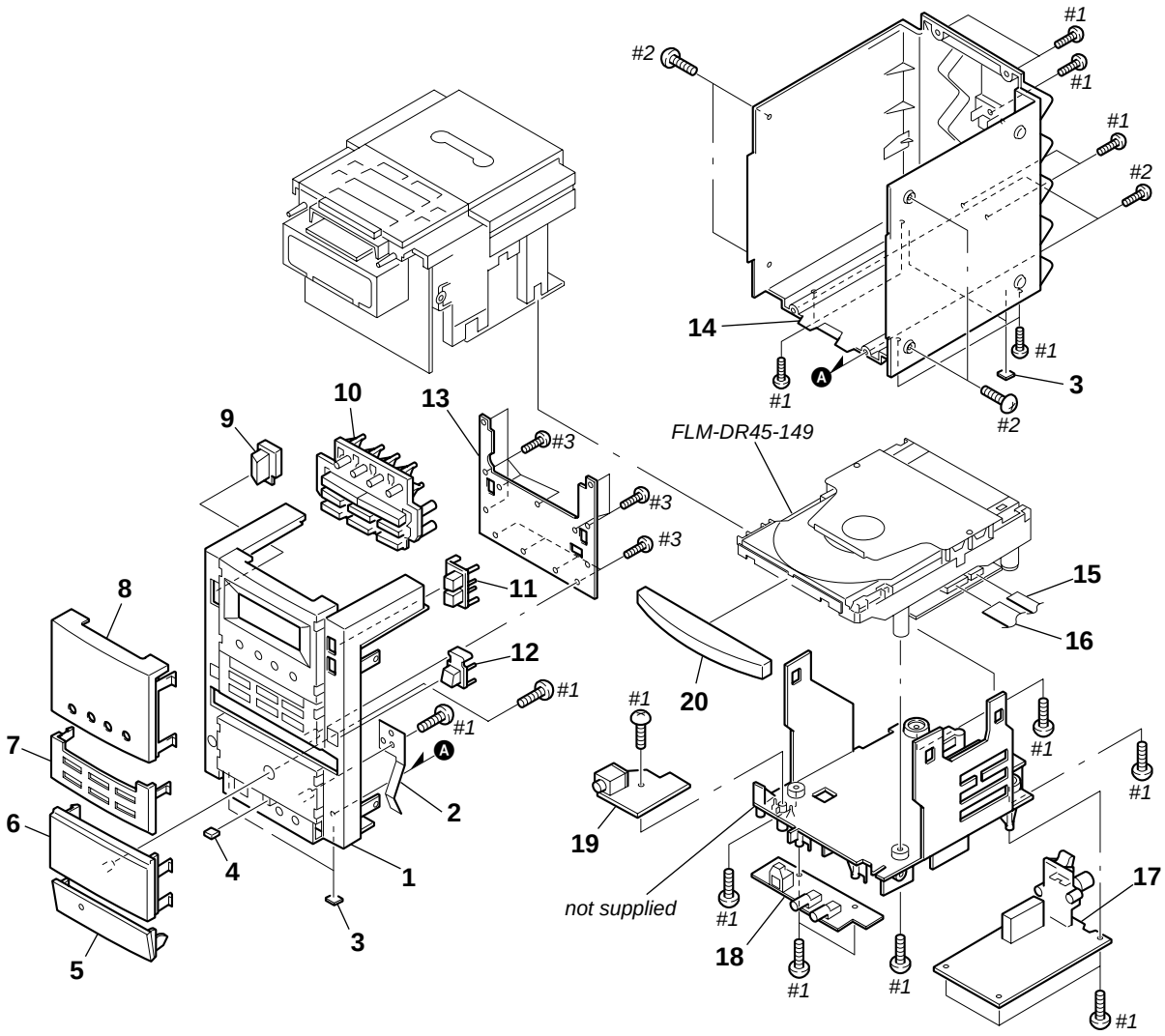
SECTION 7
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories and packing materials and hardware (# mark) list are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

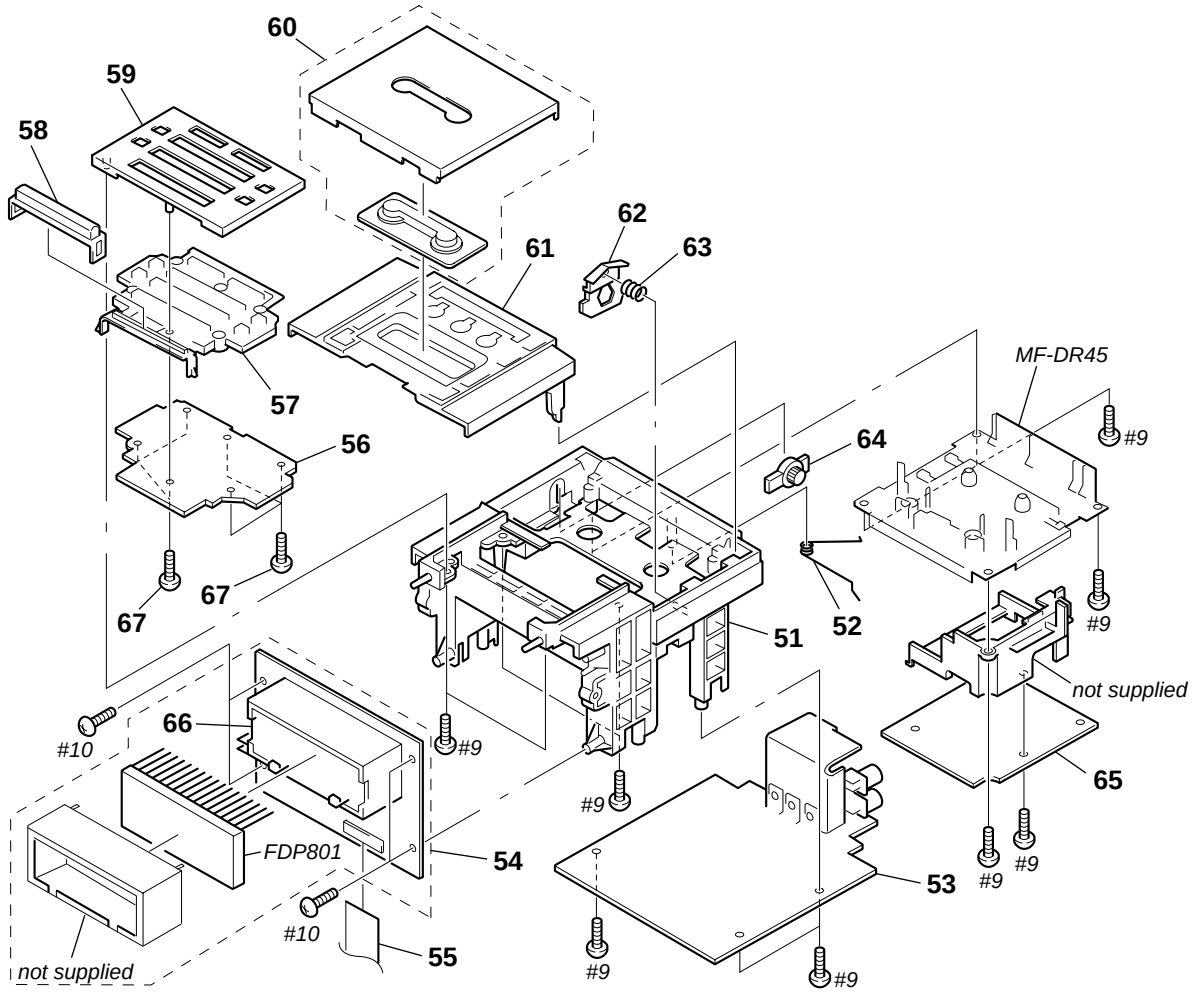
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

7-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	X-3378-630-1	CABINET (FRONT) SUB ASSY	
2	3-041-365-01	SPRING, LINK	
3	3-044-751-01	FOOT (MAIN)	
4	3-044-750-01	RUBBER	
5	X-3378-541-1	LINK ASSY, COVER	
6	3-041-339-11	COVER (B)	
7	3-041-338-01	COVER (A)	
8	3-041-337-01	WINDOW , ORNAMENT	
9	3-041-346-01	BUTTON, POWER	
10	3-041-350-01	BUTTON (A)	
11	3-044-293-01	BUTTON, VOLUME	
12	3-041-349-01	BUTTON (EJECT), CD	
* 13	1-677-031-11	FRONT BOARD	
14	3-041-335-11	CABINET (REAR)	
* 15	1-792-256-11	CABLE, FLEXIBLE (6P) (MAIN-CD)	
* 16	1-792-226-11	CABLE, FFC (15P) (CD-CONT)	
* 17	A-3323-552-A	TUNER BOARD, COMPLETE	
* 18	1-677-028-11	LINE BOARD	
* 19	1-677-029-11	H/P BOARD	
20	3-041-340-01	PLATE, CD	

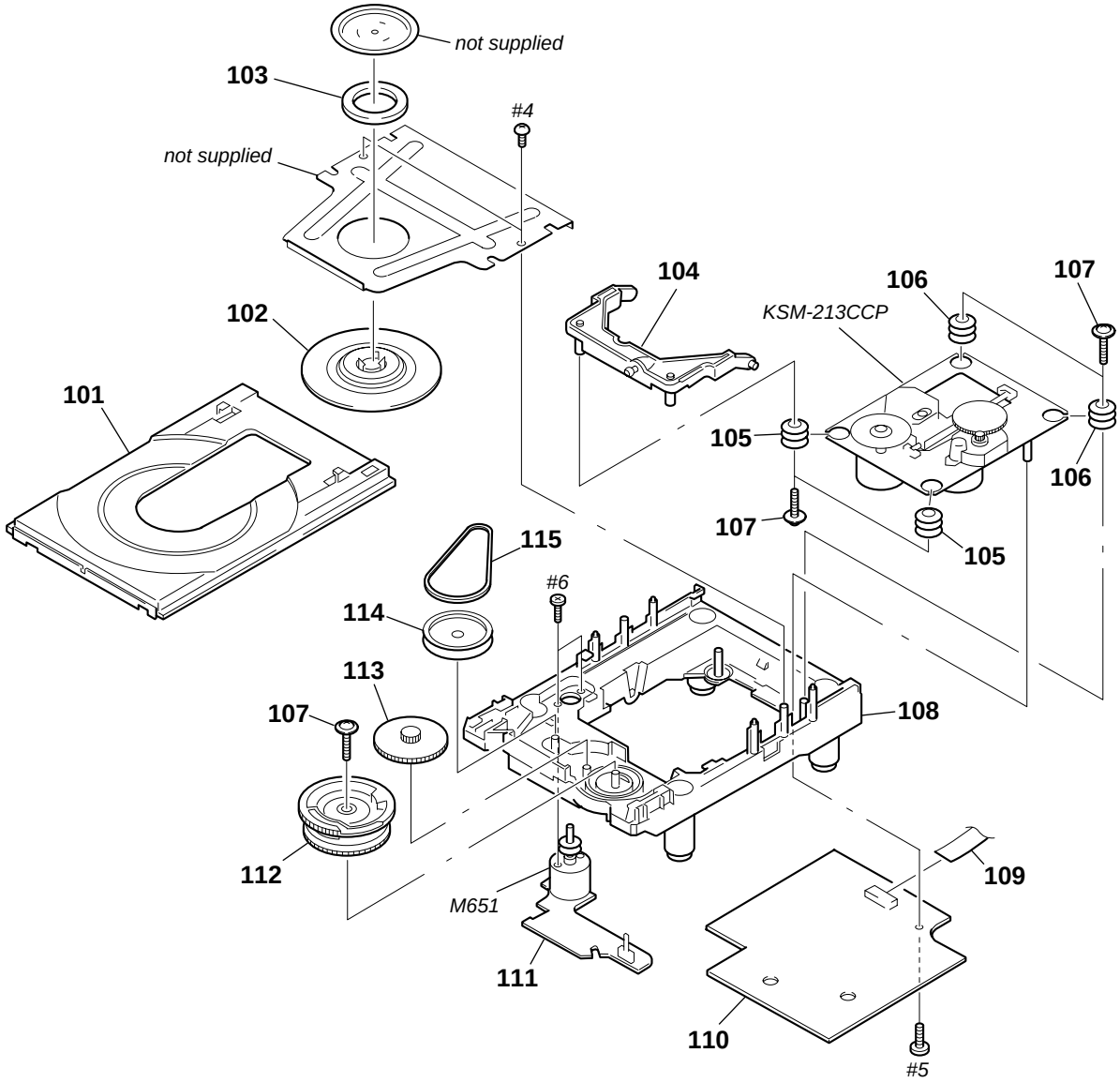
7-2. CABINET (TOP) SECTION



Ref. No.	Part No.	Description	Remark
51	3-041-336-01	CABINET (TOP)	
52	3-041-370-01	SPRING, CASSETTE	
* 53	A-3322-764-A	MAIN BOARD, COMPLETE	
* 54	A-3322-763-A	CONTROL BOARD, COMPLETE	
* 55	1-792-225-11	CABLE, FFC (31P) (MAIN-CONT)	
* 56	1-677-030-11	TOP BOARD	
57	3-041-344-01	BUTTON, FUNCTION	
58	3-041-345-01	COVER, SNOOZE	
59	3-041-356-11	PANEL (TOP)	

Ref. No.	Part No.	Description	Remark
60	A-3328-895-A	LID ASSY, CASSETTE	
61	3-041-342-01	HOLDER, CASSETTE	
62	3-029-158-01	CATCHER, PUSH	
63	3-029-159-01	SPRING, PUSH CATCHER RETURN	
64	3-343-248-01	DAMPER (P), SMALL	
* 65	A-3322-501-A	TC BOARD, COMPLETE	
66	3-041-353-01	HOLDER, FLT	
67	3-047-612-01	SCREW +2.6X10	
FDP801	1-517-955-11	INDICATOR TUBE, FLUORESCENT	

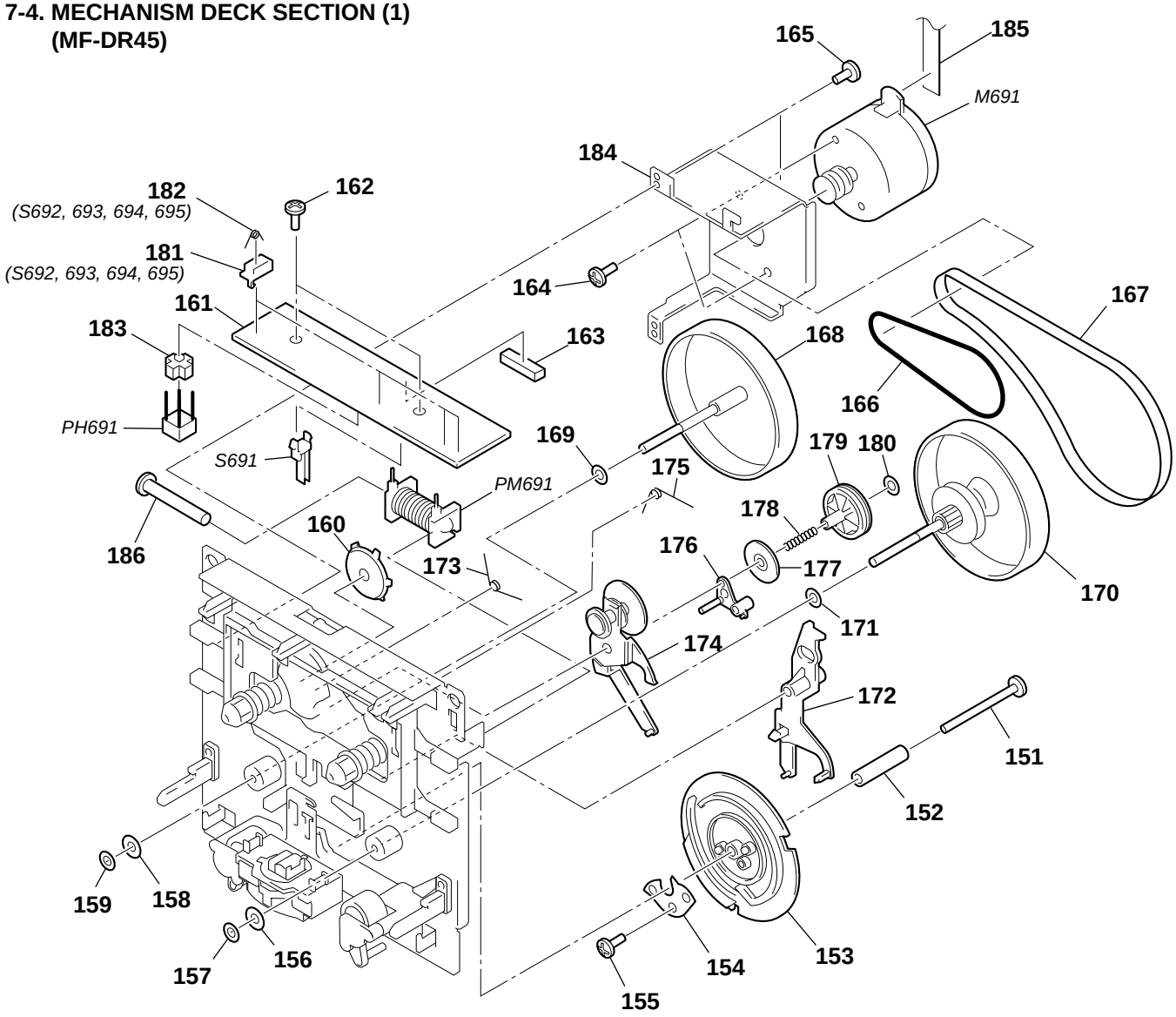
7-3. CD CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
101	3-028-010-01	TRAY	
102	3-028-019-01	PLATE, CHUCK	
103	1-452-899-21	MAGNET	
104	3-028-011-01	ARM	
105	3-910-095-31	RUBBER, VIBRATION PROOF	
106	3-931-379-01	RUBBER, VIBRATION PROOF	
107	3-921-725-01	SCREW (2.6X10), +PWH	
108	3-028-009-11	CHASSIS	

Ref. No.	Part No.	Description	Remark
* 109	1-792-227-11	CABLE, FFC (16P) (CD-PICK UP)	
* 110	A-3322-766-A	CD BOARD, COMPLETE	
* 111	1-671-072-11	LOADING BOARD	
112	3-028-013-01	GEAR, DRIVE	
113	3-028-014-01	GEAR	
114	3-028-015-01	PULLEY	
115	3-933-020-01	BELT	
M651	A-3320-538-A	MOTOR ASSY, LOADING (LOADING)	

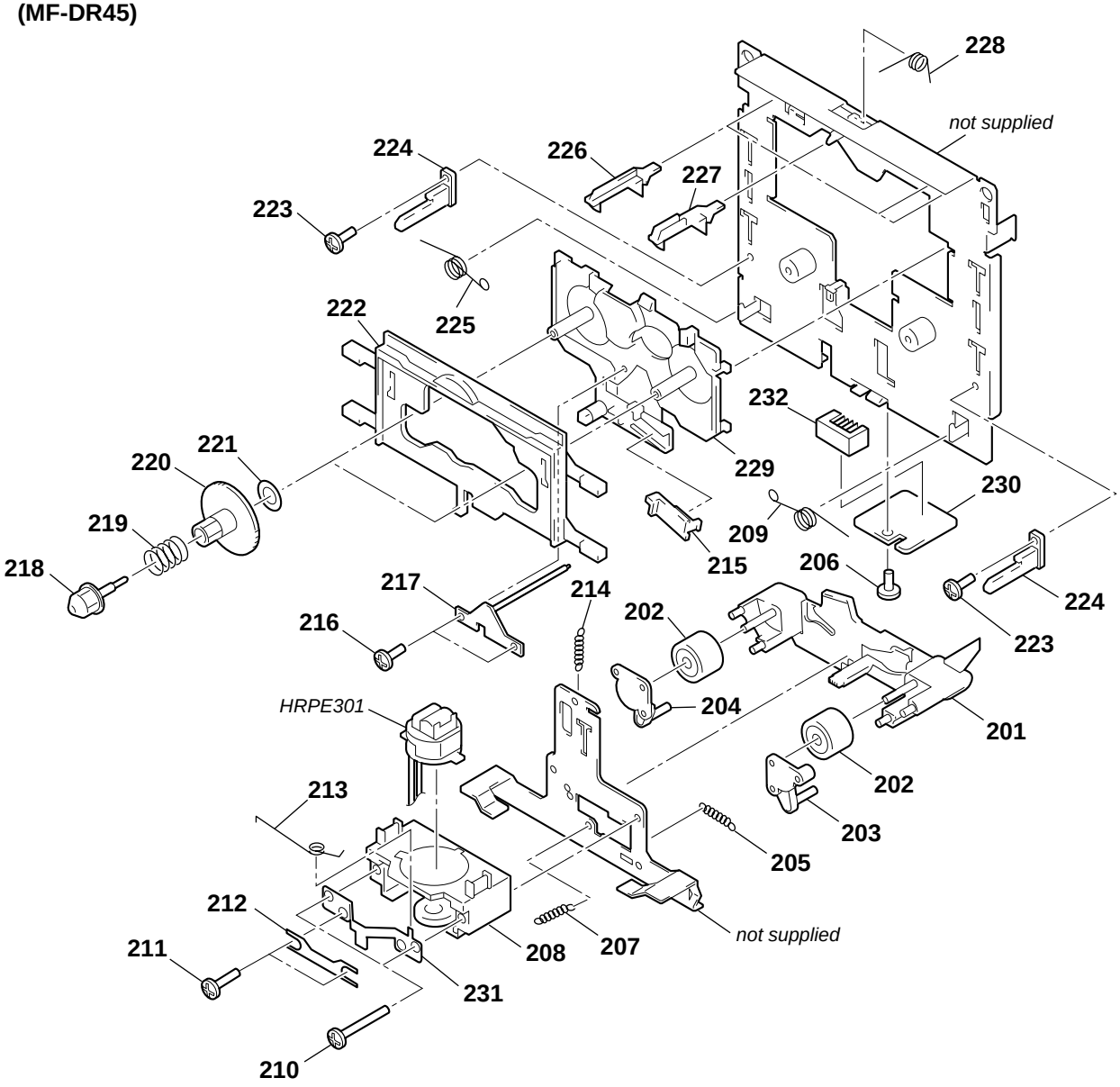
7-4. MECHANISM DECK SECTION (1)
(MF-DR45)



Ref. No.	Part No.	Description	Remark
151	3-043-921-01	SCREW	
152	3-029-591-01	COLLAR	
153	3-043-906-01	GEAR, CAM	
154	3-034-597-01	CAM, ARM	
155	3-704-418-14	SCREW (M1.7X4), TAPPING	
156	3-043-923-01	WASHER	
157	3-029-622-01	WASHER	
158	3-043-924-01	WASHER	
159	3-029-620-01	WASHER	
160	3-029-587-01	COVER	
* 161	1-673-338-11	TC RF BOARD	
162	3-043-922-01	SCREW	
* 163	1-794-105-11	HOUSING	
164	3-043-920-01	SCREW	
165	3-029-614-01	SCREW	
166	3-043-909-01	BELT (FR)	
167	3-045-798-01	BELT (SR)	
168	3-044-168-01	FLYWHEEL (LA) ASSY	
169	3-029-625-01	WASHER	
170	3-044-169-01	FLYWHEEL (RA) ASSY	
171	3-029-626-01	WASHER	

Ref. No.	Part No.	Description	Remark
172	3-029-589-01	TRIGGER, ARM	
173	3-043-916-01	SPRING	
174	3-029-593-01	CLUTCH	
175	3-043-917-01	SPRING	
176	3-043-911-01	ARM (UD A)	
177	3-029-595-01	GEAR (UD)	
178	3-043-918-01	SPRING	
179	3-043-907-01	PULLEY (D)	
180	3-043-926-01	WASHER	
181	3-034-694-01	BOX (SW)	
182	3-043-910-01	SPRING (SW)	
183	3-029-600-01	SPACER	
184	3-045-797-01	BRACKET (MOTOR)	
185	1-792-511-11	WIRE (MM)	
186	3-044-171-01	SOLENOID	
M691	3-045-799-01	MOTOR ASSY (CAPSTAN/RELL) (INCLUDING PULLEY)	
PH691	8-719-078-47	PHOTO INTERRUPTER SG-211V	
PM691	1-454-896-11	SOLENOID, PLUNGER	
S691	1-771-893-11	MODE (SW) (HEAD POSITION)	

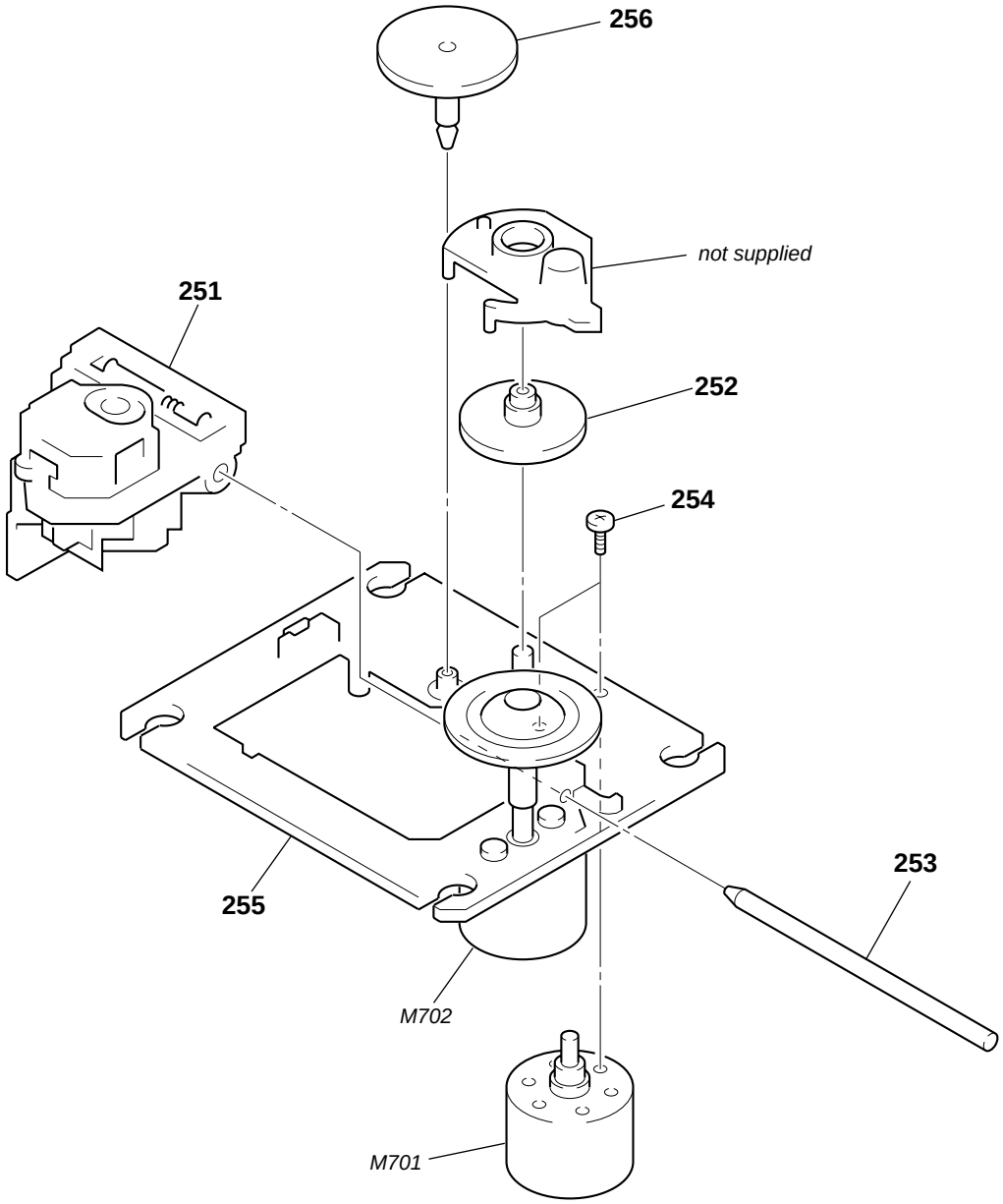
7-5. MECHANISM DECK SECTION (2)
(MF-DR45)



Ref. No.	Part No.	Description	Remark
201	3-029-573-01	LEVER (HD)	
202	3-029-576-01	PINCH, ROLLER	
203	3-029-574-01	PINCH (R), CAP	
204	3-029-575-01	PINCH (L), CAP	
205	3-043-913-01	SPRING	
206	3-029-617-01	SCREW	
207	3-043-912-01	SPRING	
208	3-029-570-01	FRAME (HD)	
209	3-029-611-01	SPRING	
210	3-029-616-01	SCREW	
211	3-938-941-01	SCREW (A)	
212	3-034-598-01	SPRING, AZIMUTH	
213	3-029-612-01	SPRING	
214	3-043-914-01	SPRING	
215	3-029-580-01	LEVER (ST)	
216	3-029-614-01	SCREW	
* 217	3-044-167-01	PLATE (D) ASSY	

Ref. No.	Part No.	Description	Remark
218	3-029-578-01	REEL, CAP	
219	3-029-602-01	SPRING	
220	3-029-579-01	REEL, GEAR	
221	3-043-925-01	WASHER	
222	3-029-582-01	BRAKE, LEVER	
223	3-029-615-01	SCREW	
224	3-029-581-01	GUIDE (C)	
225	3-029-610-01	SPRING	
226	3-029-585-01	ARM (SW)	
227	3-029-584-01	ARM (CS)	
228	3-043-915-01	SPRING	
229	3-029-583-01	FRAME (A)	
* 230	1-673-339-11	HEAD RELAY BOARD	
231	3-043-905-01	SPRING (AZ)	
* 232	1-794-104-11	HOUSING	
HRPE301	1-418-847-11	HEAD ASSY, HOLDER (REC/PB/ERASE)	

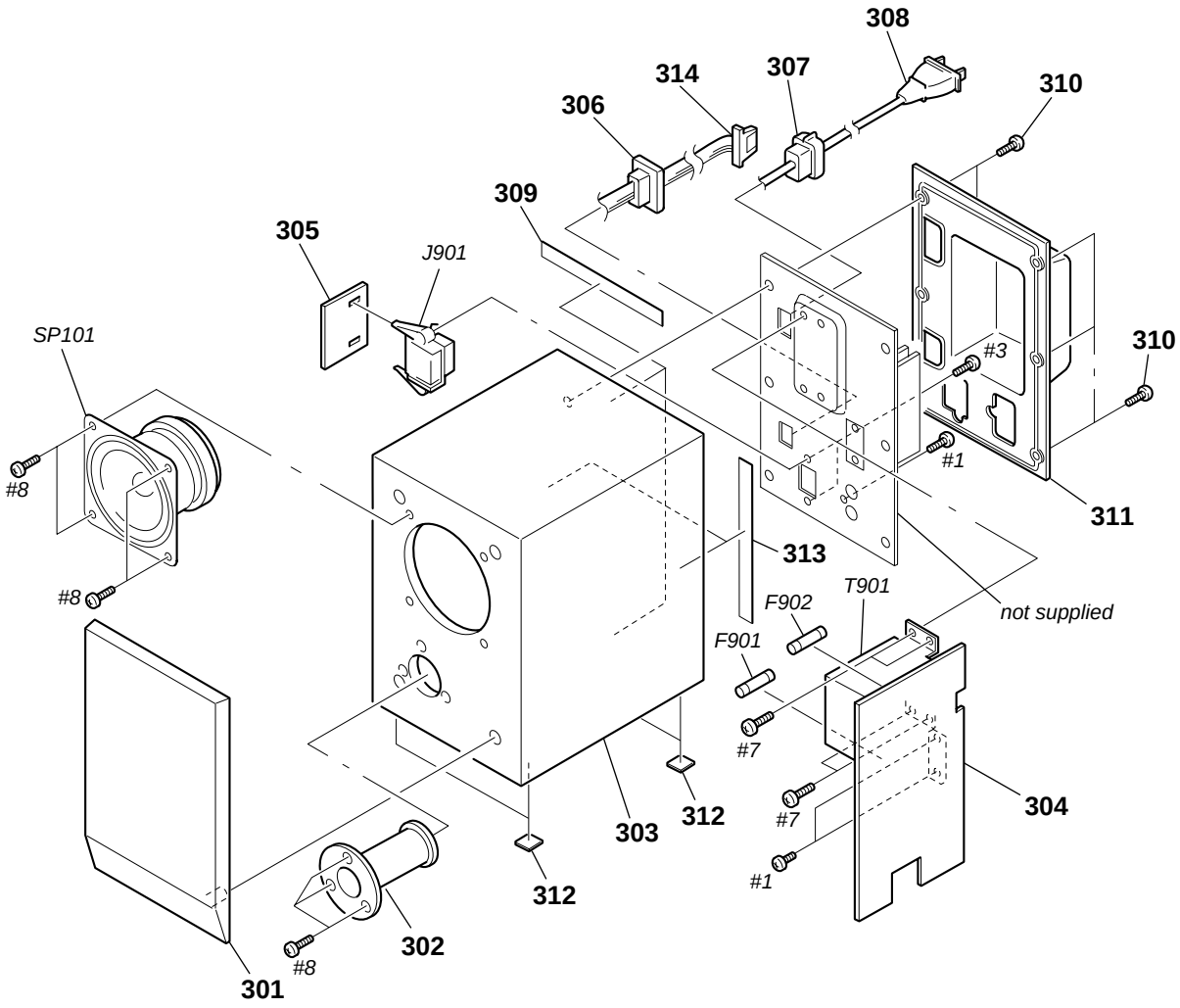
7-6. OPTICAL PICK-UP SECTION (KSM-213CCP)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠251	8-848-483-05	OPTICAL PICK-UP KSS-213C	
252	2-627-003-02	GEAR (B) (RP)	
253	2-626-908-01	SHAFT, SLED	
254	3-713-786-51	SCREW +P 2X3	
255	X-2646-381-1	CHASSIS ASSY (MB) (RP), MOTOR (SPINDLE) (INCLUDING M702)	
256	2-626-907-01	GEAR (A)	
M701	X-2625-769-1	GEAR ASSY, MOTOR (SLED)	

7-7. SPEAKER (L) SECTION

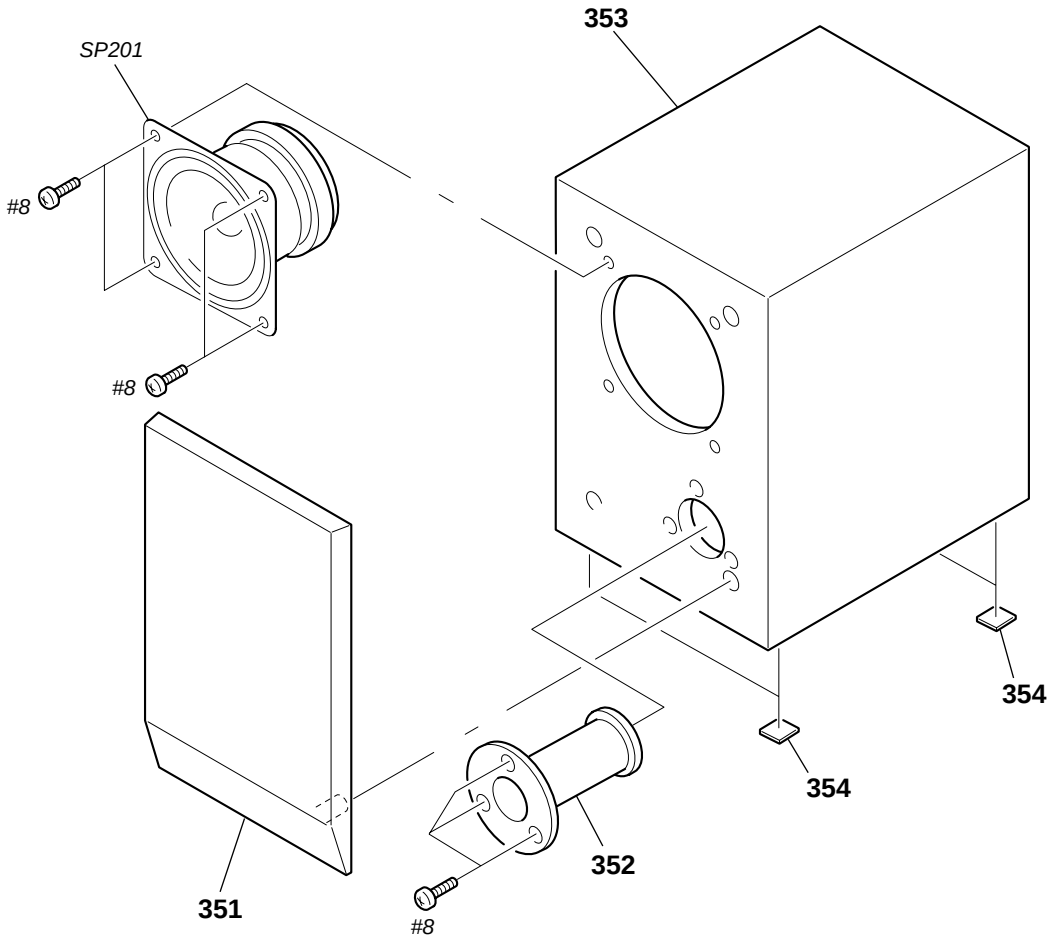


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
301	X-3378-631-1	NET ASSY, FRAME	
302	3-049-718-01	DUCT (SPEAKER) (L-CH)	
303	3-042-254-11	BOX (L), SPEAKER	
* 304	A-3322-762-A	POWER BOARD, COMPLETE	
* 305	1-677-027-11	SPEAKER BOARD	
306	3-036-280-01	BUSHING (9 PIN), CORD	
307	3-703-244-11	BUSHING (2104), CORD	
⚠ 308	1-783-531-11	CORD, POWER	
309	3-048-210-01	CUSHION (S.P.K) (B)	
310	3-029-171-01	SCREW, +B TAPPING	

Ref. No.	Part No.	Description	Remark
311	3-041-358-11	CABINET (REAR), SPEAKER	
312	3-029-170-01	FOOT (SPEAKER)	
313	3-048-209-01	CUSHION (S.P.K) (A)	
314	1-757-050-11	LEAD WIRE (WITH CONNECTOR)	
⚠ F901	1-532-501-51	FUSE (0.8A/245V)	
⚠ F902	1-532-506-51	FUSE (6.3A/250V)	
J901	1-536-707-21	TERMINAL, PUSH (2P) (SPEAKER OUT R-CH)	
SP101	1-529-615-11	SPEAKER (8cm) (L-CH)	
⚠ T901	1-435-351-11	TRANSFORMER, POWER	

7-8. SPEAKER (R) SECTION



Ref. No.	Part No.	Description	Remark
351	X-3378-631-1	NET ASSY, FRAME	
352	3-047-830-01	DUCT (SPEAKER) (R-CH)	
353	3-042-255-11	BOX (R), SPEAKER	
354	3-029-170-01	FOOT (SPEAKER)	
SP201	1-529-615-11	SPEAKER (8cm) (R-CH)	

SECTION 8
ELECTRICAL PARTS LIST

CD

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-3322-766-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C702	1-124-589-11	ELECT	47uF	20%	16V
C703	1-124-584-00	ELECT	100uF	20%	10V
C704	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C705	1-124-584-00	ELECT	100uF	20%	10V
C706	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C707	1-124-584-00	ELECT	100uF	20%	10V
C708	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C709	1-124-234-00	ELECT	22uF	20%	16V
C710	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C711	1-124-589-11	ELECT	47uF	20%	16V
C712	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C713	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C714	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C715	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C716	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C717	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C718	1-126-176-11	ELECT	220uF	20%	10V
C719	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C720	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C721	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C722	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C723	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C724	1-124-584-00	ELECT	100uF	20%	10V
C725	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C726	1-124-584-00	ELECT	100uF	20%	10V
C727	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C728	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C729	1-124-465-00	ELECT	0.47uF	20%	50V
C730	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C731	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C732	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C733	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V
C734	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C736	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C737	1-163-095-00	CERAMIC CHIP	12PF	5%	50V
C738	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C739	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C740	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C742	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C743	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C744	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C745	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C746	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C747	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C749	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C750	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C751	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C752	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C753	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C754	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C755	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C756	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C757	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C758	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C760	1-126-163-11	ELECT	4.7uF	20%	50V
C761	1-126-163-11	ELECT	4.7uF	20%	50V
C762	1-124-584-00	ELECT	100uF	20%	10V
C763	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C765	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C766	1-124-261-00	ELECT	10uF	20%	50V
C767	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
		< CONNECTOR >			
CNP701	1-770-168-11	CONNECTOR, FFC/FPC 16P			
CNP702	1-695-376-21	PIN, CONNECTOR (PC BOARD) 15P			
CNP703	1-770-540-31	PIN, CONNECTOR (PC BOARD) 6P			
		< DIODE >			
D701	8-719-988-61	DIODE 1SS355TE-17			
D702	8-719-970-02	DIODE 1SR139-400			
D703	8-719-970-02	DIODE 1SR139-400			
D704	8-719-970-02	DIODE 1SR139-400			
D705	8-719-970-02	DIODE 1SR139-400			
		< FERRITE BEAD >			
FB701	1-410-397-21	FERRITE BEAD INDUCTOR 1.1uH			
FB702	1-410-397-21	FERRITE BEAD INDUCTOR 1.1uH			
		< IC >			
IC701	8-752-085-50	IC CXA2568M			
IC702	8-752-386-85	IC CXD2587Q			
IC703	8-759-549-27	IC BA5974FP			

CD

Ref. No.	Part No.	Description		Remark
		< JUMPER RESISTOR >		
JR701	1-216-295-00	SHORT	0	
JR702	1-216-295-00	SHORT	0	
JR703	1-216-295-00	SHORT	0	
JR704	1-216-295-00	SHORT	0	
JR705	1-216-295-00	SHORT	0	
JR706	1-216-295-00	SHORT	0	
JR707	1-216-295-00	SHORT	0	
JR708	1-216-295-00	SHORT	0	
JR709	1-216-295-00	SHORT	0	
JR710	1-216-295-00	SHORT	0	
JR711	1-216-295-00	SHORT	0	
JR712	1-216-295-00	SHORT	0	
JR713	1-216-295-00	SHORT	0	
JR714	1-216-295-00	SHORT	0	
JR715	1-216-295-00	SHORT	0	
JR716	1-216-295-00	SHORT	0	
JR717	1-216-295-00	SHORT	0	
JR718	1-216-295-00	SHORT	0	
JR719	1-216-295-00	SHORT	0	
JR720	1-216-295-00	SHORT	0	
JR721	1-216-295-00	SHORT	0	
JR722	1-216-295-00	SHORT	0	
JR723	1-216-295-00	SHORT	0	
JR724	1-216-295-00	SHORT	0	
JR725	1-216-295-00	SHORT	0	
JR726	1-216-295-00	SHORT	0	
JR727	1-216-295-00	SHORT	0	
JR728	1-216-295-00	SHORT	0	
JR729	1-216-295-00	SHORT	0	
JR730	1-216-295-00	SHORT	0	
JR731	1-216-295-00	SHORT	0	
JR732	1-216-295-00	SHORT	0	
JR733	1-216-295-00	SHORT	0	
JR734	1-216-295-00	SHORT	0	
JR735	1-216-295-00	SHORT	0	
JR736	1-216-295-00	SHORT	0	
JR737	1-216-295-00	SHORT	0	
JR738	1-216-295-00	SHORT	0	
JR739	1-216-295-00	SHORT	0	
JR740	1-216-295-00	SHORT	0	
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JR742	1-216-295-00	SHORT	0	
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JR748	1-216-295-00	SHORT	0	
JR749	1-216-295-00	SHORT	0	
JR750	1-216-295-00	SHORT	0	
JR751	1-216-295-00	SHORT	0	
JR752	1-216-295-00	SHORT	0	
JR753	1-216-295-00	SHORT	0	
JR754	1-216-295-00	SHORT	0	
JR755	1-216-295-00	SHORT	0	
JR756	1-216-295-00	SHORT	0	
JR757	1-216-295-00	SHORT	0	
JR758	1-216-295-00	SHORT	0	
JR759	1-216-295-00	SHORT	0	
JR760	1-216-295-00	SHORT	0	
JR761	1-216-295-00	SHORT	0	
JR762	1-216-295-00	SHORT	0	
JR763	1-216-295-00	SHORT	0	
JR764	1-216-295-00	SHORT	0	
JR765	1-216-295-00	SHORT	0	
JR766	1-216-295-00	SHORT	0	
JR767	1-216-295-00	SHORT	0	
JR768	1-216-295-00	SHORT	0	
JR769	1-216-295-00	SHORT	0	
JR770	1-216-295-00	SHORT	0	
JR771	1-216-295-00	SHORT	0	
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JR774	1-216-295-00	SHORT	0	
JR775	1-216-295-00	SHORT	0	
JR776	1-216-295-00	SHORT	0	
JR777	1-216-295-00	SHORT	0	
JR778	1-216-295-00	SHORT	0	
JR779	1-216-295-00	SHORT	0	
JR780	1-216-295-00	SHORT	0	
JR781	1-216-295-00	SHORT	0	
JR782	1-216-295-00	SHORT	0	
JR783	1-216-295-00	SHORT	0	
JR784	1-216-295-00	SHORT	0	
JR786	1-216-295-00	SHORT	0	
JR787	1-216-295-00	SHORT	0	
JR788	1-216-295-00	SHORT	0	
		< COIL >		
L701	1-410-188-51	INDUCTOR CHIP	0.47uH	
L702	1-414-137-31	INDUCTOR	0.22uH	
		< TRANSISTOR >		
Q701	8-729-903-46	TRANSISTOR	2SB1132-P	
		< RESISTOR >		
R701	1-216-111-00	METAL CHIP	390K 5%	1/10W
R702	1-216-073-00	METAL CHIP	10K 5%	1/10W
R703	1-216-073-00	METAL CHIP	10K 5%	1/10W
R704	1-216-073-00	METAL CHIP	10K 5%	1/10W
R705	1-216-073-00	METAL CHIP	10K 5%	1/10W
R706	1-216-111-00	METAL CHIP	390K 5%	1/10W
R707	1-216-001-00	METAL CHIP	10 5%	1/10W

Ref. No.	Part No.	Description			Remark
R708	1-216-049-11	RES-CHIP	1K	5%	1/10W
R710	1-216-073-00	METAL CHIP	10K	5%	1/10W
R711	1-216-073-00	METAL CHIP	10K	5%	1/10W
R712	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R713	1-216-121-11	RES-CHIP	1M	5%	1/10W
R715	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R716	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R719	1-216-085-00	METAL CHIP	33K	5%	1/10W
R720	1-216-089-11	RES-CHIP	47K	5%	1/10W
R722	1-216-085-00	METAL CHIP	33K	5%	1/10W
R723	1-216-099-00	METAL CHIP	120K	5%	1/10W
R724	1-216-081-00	METAL CHIP	22K	5%	1/10W
R725	1-216-089-11	RES-CHIP	47K	5%	1/10W
R726	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R727	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R728	1-216-085-00	METAL CHIP	33K	5%	1/10W
R729	1-216-073-00	METAL CHIP	10K	5%	1/10W
R730	1-216-097-11	RES-CHIP	100K	5%	1/10W
R731	1-216-121-11	RES-CHIP	1M	5%	1/10W
R732	1-216-073-00	METAL CHIP	10K	5%	1/10W
R733	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R734	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R735	1-216-049-11	RES-CHIP	1K	5%	1/10W
R736	1-216-075-00	METAL CHIP	12K	5%	1/10W
R737	1-216-075-00	METAL CHIP	12K	5%	1/10W
R738	1-216-075-00	METAL CHIP	12K	5%	1/10W
R740	1-216-049-11	RES-CHIP	1K	5%	1/10W
R741	1-216-049-11	RES-CHIP	1K	5%	1/10W
R742	1-216-049-11	RES-CHIP	1K	5%	1/10W
R743	1-216-049-11	RES-CHIP	1K	5%	1/10W
R744	1-216-049-11	RES-CHIP	1K	5%	1/10W
R745	1-216-049-11	RES-CHIP	1K	5%	1/10W
R746	1-216-075-00	METAL CHIP	12K	5%	1/10W
R747	1-216-075-00	METAL CHIP	12K	5%	1/10W
R748	1-216-075-00	METAL CHIP	12K	5%	1/10W
R749	1-216-049-11	RES-CHIP	1K	5%	1/10W
R750	1-216-049-11	RES-CHIP	1K	5%	1/10W
R751	1-216-049-11	RES-CHIP	1K	5%	1/10W
R753	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S701	1-762-812-11	SWITCH, LEAF (LIMIT)			
		< VIBRATOR >			
X701	1-767-226-11	VIBRATOR, CRYSTAL (16.9344MHz)			

****

Ref. No.	Part No.	Description			Remark
*	A-3322-763-A	CONTROL BOARD, COMPLETE			
		**********			
	3-041-353-01	HOLDER, FLT			
		< CAPACITOR >			
C801	1-162-282-31	CERAMIC	100PF	10%	50V
C802	1-162-282-31	CERAMIC	100PF	10%	50V
C804	1-162-294-31	CERAMIC	0.001uF	10%	50V
C805	1-162-282-31	CERAMIC	100PF	10%	50V
C806	1-162-282-31	CERAMIC	100PF	10%	50V
C807	1-162-282-31	CERAMIC	100PF	10%	50V
C808	1-162-282-31	CERAMIC	100PF	10%	50V
C809	1-162-282-31	CERAMIC	100PF	10%	50V
C810	1-162-282-31	CERAMIC	100PF	10%	50V
C811	1-136-169-00	MYLAR	0.22uF	5%	50V
C812	1-136-169-00	MYLAR	0.22uF	5%	50V
C813	1-127-888-21	CERAMIC	0.1uF	10%	50V
C814	1-127-888-21	CERAMIC	0.1uF	10%	50V
C815	1-127-888-21	CERAMIC	0.1uF	10%	50V
C826	1-162-306-11	CERAMIC	0.01uF	20%	16V
C827	1-126-960-11	ELECT	1uF	20%	50V
C828	1-102-516-11	CERAMIC	27PF	5%	50V
C829	1-102-516-11	CERAMIC	27PF	5%	50V
C830	1-102-518-11	CERAMIC	33PF	5%	50V
C831	1-102-518-11	CERAMIC	33PF	5%	50V
C832	1-162-306-11	CERAMIC	0.01uF	20%	16V
C833	1-162-306-11	CERAMIC	0.01uF	20%	16V
C834	1-102-962-00	CERAMIC	30PF	5%	50V
C835	1-102-962-00	CERAMIC	30PF	5%	50V
C838	1-162-294-31	CERAMIC	0.001uF	10%	50V
C839	1-162-282-31	CERAMIC	100PF	10%	50V
C840	1-162-282-31	CERAMIC	100PF	10%	50V
C841	1-162-282-31	CERAMIC	100PF	10%	50V
C843	1-162-294-31	CERAMIC	1000PF	10%	50V
C844	1-162-282-31	CERAMIC	100PF	10%	50V
C845	1-162-282-31	CERAMIC	100PF	10%	50V
C846	1-162-282-31	CERAMIC	100PF	10%	50V
C847	1-162-282-31	CERAMIC	100PF	10%	50V
C848	1-162-282-31	CERAMIC	100PF	10%	50V
C849	1-162-282-31	CERAMIC	100PF	10%	50V
C850	1-162-282-31	CERAMIC	100PF	10%	50V
C851	1-162-282-31	CERAMIC	100PF	10%	50V
C852	1-162-282-31	CERAMIC	100PF	10%	50V
C854	1-162-282-31	CERAMIC	100PF	10%	50V
C855	1-162-282-31	CERAMIC	100PF	10%	50V
C856	1-162-282-31	CERAMIC	100PF	10%	50V
C857	1-162-282-31	CERAMIC	100PF	10%	50V
C858	1-162-282-31	CERAMIC	100PF	10%	50V
C859	1-162-294-31	CERAMIC	0.001uF	10%	50V
C863	1-162-282-31	CERAMIC	100PF	10%	50V
C864	1-162-282-31	CERAMIC	100PF	10%	50V
C867	1-125-507-11	DOUBLE LAYERS	0.22F		5.5V

CONTROL

Ref. No.	Part No.	Description			Remark
C868	1-162-282-31	CERAMIC	100PF	10%	50V
C869	1-104-664-11	ELECT	47uF	20%	10V
C873	1-126-968-11	ELECT	100uF	20%	50V
		< CONNECTOR >			
CNP801	1-695-392-31	PIN, CONNECTOR (PC BOARD) 31P			
CNP802	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P			
CNP803	1-695-338-11	PIN, CONNECTOR (PC BOARD) 15P			
* CNP804	1-580-155-11	PIN, CONNECTOR (PC BOARD) 3P			
		< DIODE >			
D802	8-719-991-33	DIODE 1SS133T-77			
D803	8-719-991-33	DIODE 1SS133T-77			
		< FLUORESCENT INDICATOR >			
FDP801	1-517-955-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC801	8-752-912-32	IC CXP82832-028Q			
IC802	8-759-645-87	IC PST9128-T			
		< COIL >			
L802	1-414-146-31	INDUCTOR	2.2uH		
L804	1-410-336-11	INDUCTOR	220uH		
L805	1-414-146-31	INDUCTOR	2.2uH		
L807	1-408-615-31	INDUCTOR	100uH		
L808	1-408-615-31	INDUCTOR	100uH		
		< TRANSISTOR >			
Q801	8-729-036-89	TRANSISTOR KTC3198GR-AT			
Q802	8-729-036-89	TRANSISTOR KTC3198GR-AT			
Q803	8-729-036-89	TRANSISTOR KTC3198GR-AT			
		< RESISTOR >			
R801	1-249-417-11	CARBON	1K	5%	1/4W
R802	1-249-425-11	CARBON	4.7K	5%	1/4W
R803	1-249-429-11	CARBON	10K	5%	1/4W
R804	1-249-425-11	CARBON	4.7K	5%	1/4W
R805	1-249-417-11	CARBON	1K	5%	1/4W
R806	1-249-425-11	CARBON	4.7K	5%	1/4W
R807	1-249-417-11	CARBON	1K	5%	1/4W
R808	1-249-417-11	CARBON	1K	5%	1/4W
R809	1-249-417-11	CARBON	1K	5%	1/4W
R810	1-249-417-11	CARBON	1K	5%	1/4W
R811	1-249-417-11	CARBON	1K	5%	1/4W
R812	1-249-417-11	CARBON	1K	5%	1/4W
R813	1-249-417-11	CARBON	1K	5%	1/4W
R814	1-249-421-11	CARBON	2.2K	5%	1/4W
R815	1-249-421-11	CARBON	2.2K	5%	1/4W
R816	1-249-421-11	CARBON	2.2K	5%	1/4W
R817	1-249-421-11	CARBON	2.2K	5%	1/4W
R818	1-249-417-11	CARBON	1K	5%	1/4W
R819	1-249-437-11	CARBON	47K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R820	1-249-437-11	CARBON	47K	5%	1/4W
R821	1-249-437-11	CARBON	47K	5%	1/4W
R824	1-249-417-11	CARBON	1K	5%	1/4W
R825	1-249-417-11	CARBON	1K	5%	1/4W
R826	1-249-417-11	CARBON	1K	5%	1/4W
R827	1-249-417-11	CARBON	1K	5%	1/4W
R829	1-249-417-11	CARBON	1K	5%	1/4W
R830	1-249-417-11	CARBON	1K	5%	1/4W
R831	1-249-417-11	CARBON	1K	5%	1/4W
R832	1-249-425-11	CARBON	4.7K	5%	1/4W
R833	1-249-425-11	CARBON	4.7K	5%	1/4W
R834	1-249-425-11	CARBON	4.7K	5%	1/4W
R835	1-249-437-11	CARBON	47K	5%	1/4W
R836	1-247-874-11	CARBON	62K	5%	1/4W
R837	1-249-429-11	CARBON	10K	5%	1/4W
R839	1-247-815-11	CARBON	220	5%	1/4W
R840	1-247-887-00	CARBON	220K	5%	1/4W
R841	1-249-425-11	CARBON	4.7K	5%	1/4W
R842	1-249-425-11	CARBON	4.7K	5%	1/4W
R843	1-249-417-11	CARBON	1K	5%	1/4W
R844	1-249-437-11	CARBON	47K	5%	1/4W
R845	1-249-417-11	CARBON	1K	5%	1/4W
R846	1-249-417-11	CARBON	1K	5%	1/4W
R847	1-249-417-11	CARBON	1K	5%	1/4W
R848	1-249-429-11	CARBON	10K	5%	1/4W
R849	1-249-437-11	CARBON	47K	5%	1/4W
R850	1-249-425-11	CARBON	4.7K	5%	1/4W
R851	1-249-425-11	CARBON	4.7K	5%	1/4W
R852	1-249-425-11	CARBON	4.7K	5%	1/4W
R853	1-249-425-11	CARBON	4.7K	5%	1/4W
R854	1-249-425-11	CARBON	4.7K	5%	1/4W
R855	1-249-425-11	CARBON	4.7K	5%	1/4W
R856	1-249-425-11	CARBON	4.7K	5%	1/4W
R857	1-249-417-11	CARBON	1K	5%	1/4W
R858	1-249-417-11	CARBON	1K	5%	1/4W
R859	1-249-421-11	CARBON	2.2K	5%	1/4W
R860	1-249-421-11	CARBON	2.2K	5%	1/4W
R861	1-249-421-11	CARBON	2.2K	5%	1/4W
R862	1-249-417-11	CARBON	1K	5%	1/4W
R863	1-249-417-11	CARBON	1K	5%	1/4W
R866	1-249-417-11	CARBON	1K	5%	1/4W
R867	1-249-417-11	CARBON	1K	5%	1/4W
R868	1-249-417-11	CARBON	1K	5%	1/4W
R869	1-249-417-11	CARBON	1K	5%	1/4W
R871	1-249-429-11	CARBON	10K	5%	1/4W
R872	1-249-437-11	CARBON	47K	5%	1/4W
R873	1-249-401-11	CARBON	47	5%	1/4W
R874	1-249-421-11	CARBON	2.2K	5%	1/4W
R875	1-249-425-11	CARBON	4.7K	5%	1/4W
R876	1-249-425-11	CARBON	4.7K	5%	1/4W
R878	1-247-863-11	CARBON	22K	5%	1/4W
R879	1-247-863-11	CARBON	22K	5%	1/4W
R880	1-247-863-11	CARBON	22K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R883	1-249-403-11	CARBON	68	5%	1/4W
		< VIBRATOR >			
X801	1-767-697-11	VIBRATOR, CRYSTAL (32kHz)			
X802	1-781-598-11	VIBRATOR, CERAMIC (8MHz)			
**********					
*	1-677-031-11	FRONT BOARD			
		**********			
		< CAPACITOR >			
C871	1-162-282-31	CERAMIC	100PF	10%	50V
C872	1-127-888-21	CERAMIC	0.1uF	10%	50V
		< IC >			
IC804	8-749-016-97	IC NJL62H400A			
		< CABLE HOLDER >			
* KH805	1-565-386-11	HOLDER, CABLE 5P			
		< RESISTOR >			
R401	1-249-413-11	CARBON	470	5%	1/4W
R402	1-249-412-11	CARBON	390	5%	1/4W
R403	1-249-413-11	CARBON	470	5%	1/4W
R404	1-249-413-11	CARBON	470	5%	1/4W
R405	1-249-415-11	CARBON	680	5%	1/4W
R406	1-249-415-11	CARBON	680	5%	1/4W
R407	1-249-417-11	CARBON	1K	5%	1/4W
R408	1-249-418-11	CARBON	1.2K	5%	1/4W
R409	1-249-419-11	CARBON	1.5K	5%	1/4W
R410	1-249-421-11	CARBON	2.2K	5%	1/4W
R411	1-247-843-11	CARBON	3.3K	5%	1/4W
R412	1-249-416-11	CARBON	820	5%	1/4W
R413	1-247-843-11	CARBON	3.3K	5%	1/4W
R414	1-249-418-11	CARBON	1.2K	5%	1/4W
R415	1-249-419-11	CARBON	1.5K	5%	1/4W
R416	1-249-421-11	CARBON	2.2K	5%	1/4W
		< SWITCH >			
S818	1-762-798-11	SWITCH, KEY BOARD (VOLUME +)			
S819	1-762-798-11	SWITCH, KEY BOARD (VOLUME –)			
S820	1-762-798-11	SWITCH, KEY BOARD (SOUND)			
S821	1-762-798-11	SWITCH, KEY BOARD (MEGA BASS)			
S822	1-762-798-11	SWITCH, KEY BOARD (OPERATE)			
S823	1-762-798-11	SWITCH, KEY BOARD (STANDBY)			
S824	1-762-798-11	SWITCH, KEY BOARD (SLEEP)			
S825	1-762-798-11	SWITCH, KEY BOARD (CLOCK)			
S826	1-762-798-11	SWITCH, KEY BOARD (TIMER)			
S827	1-762-798-11	SWITCH, KEY BOARD (CD OPEN/CLOSE ⏏)			
S828	1-762-798-11	SWITCH, KEY BOARD (DISPLAY)			
S829	1-762-798-11	SWITCH, KEY BOARD (MODE MONO/ST ISS)			
S830	1-762-798-11	SWITCH, KEY BOARD (ENTER MEMORY)			
S831	1-762-798-11	SWITCH, KEY BOARD (COUNTER RESET)			
S832	1-762-798-11	SWITCH, KEY BOARD (DIR MODE)			
S833	1-762-798-11	SWITCH, KEY BOARD (SUMMER TIME)			
**********					
*	1-673-339-11	HEAD RELAY BOARD			
		**********			
**********					
*	1-677-029-11	H/P BOARD			
		**********			
		< CAPACITOR >			
C141	1-162-294-31	CERAMIC	0.001uF	10%	50V
C241	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< CONNECTOR >			
CNP313	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P			
		< JACK >			
J301	1-566-891-11	JACK (🎧)			
		< COIL >			
L101	1-410-509-11	INDUCTOR	10uH		
L201	1-410-509-11	INDUCTOR	10uH		
L301	1-410-750-41	INDUCTOR	0.47uH		
		< RESISTOR >			
R132	1-249-429-11	CARBON	10K	5%	1/4W
R232	1-249-429-11	CARBON	10K	5%	1/4W
**********					
*	1-677-028-11	LINE BOARD			
		**********			
		< CAPACITOR >			
C341	1-126-963-11	ELECT	4.7uF	20%	50V
C342	1-161-494-00	CERAMIC	0.022uF		25V
		< CONNECTOR >			
CNP312	1-695-105-11	PIN, CONNECTOR (PC BOARD) 3P			
		< DIODE >			
D331	8-719-991-33	DIODE 1SS133T-77			
D332	8-719-991-33	DIODE 1SS133T-77			
		< IC >			
IC704	8-749-921-12	IC GP1F32T (OPTICAL DIGITAL OUT (CD))			
		< JACK >			
J311	1-566-822-21	JACK (LINE OUT)			
J312	1-566-822-21	JACK (LINE IN)			

LINE **LOADING** **MAIN**

Ref. No.	Part No.	Description			Remark
		< COIL >			
L111	1-414-146-31	INDUCTOR	2.2uH		
L112	1-414-146-31	INDUCTOR	2.2uH		
L211	1-414-146-31	INDUCTOR	2.2uH		
L212	1-414-146-31	INDUCTOR	2.2uH		
L311	1-410-750-41	INDUCTOR	0.47uH		
L312	1-410-750-41	INDUCTOR	0.47uH		
**********					
*	1-671-072-11	LOADING BOARD			
		**********			
		< CAPACITOR >			
C651	1-104-664-11	ELECT	47uF	20%	10V
		< CONNECTOR >			
* CN651	1-580-167-11	PIN, CONNECTOR (PC BOARD) 6P			
		< IC >			
IC651	8-759-962-08	IC BA6208			
		< SWITCH >			
S651	1-771-489-11	SWITCH, LEVER SLIDE (LOADING IN/OUT DET)			
**********					
*	A-3322-764-A	MAIN BOARD, COMPLETE			
		**********			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
		< CAPACITOR >			
C113	1-127-880-21	CERAMIC	0.022uF	10%	50V
C114	1-126-960-11	ELECT	1uF	20%	50V
C115	1-126-960-11	ELECT	1uF	20%	50V
C116	1-126-960-11	ELECT	1uF	20%	50V
C117	1-126-960-11	ELECT	1uF	20%	50V
C118	1-126-963-11	ELECT	4.7uF	20%	50V
C119	1-126-964-11	ELECT	10uF	20%	50V
C120	1-130-475-00	MYLAR	0.0022uF	5%	50V
C121	1-136-495-11	MYLAR	0.068uF	5%	50V
C122	1-136-495-11	MYLAR	0.068uF	5%	50V
C123	1-136-169-00	MYLAR	0.22uF	5%	50V
C124	1-136-169-00	MYLAR	0.22uF	5%	50V
C125	1-104-665-11	ELECT	100uF	20%	10V
C126	1-126-963-11	ELECT	4.7uF	20%	50V
C127	1-126-960-11	ELECT	1uF	20%	50V
C128	1-162-294-31	CERAMIC	0.001uF	10%	50V
C129	1-104-664-11	ELECT	47uF	20%	10V
C130	1-104-664-11	ELECT	47uF	20%	10V
C131	1-162-282-31	CERAMIC	100PF	10%	50V
C132	1-162-282-31	CERAMIC	100PF	10%	50V
C133	1-162-282-31	CERAMIC	100PF	10%	50V
C134	1-162-282-31	CERAMIC	100PF	10%	50V

Ref. No.	Part No.	Description			Remark
C135	1-162-282-31	CERAMIC	100PF	10%	50V
C213	1-127-880-21	CERAMIC	0.022uF	10%	50V
C214	1-126-960-11	ELECT	1uF	20%	50V
C215	1-126-960-11	ELECT	1uF	20%	50V
C216	1-126-960-11	ELECT	1uF	20%	50V
C217	1-126-960-11	ELECT	1uF	20%	50V
C218	1-126-963-11	ELECT	4.7uF	20%	50V
C219	1-126-964-11	ELECT	10uF	20%	50V
C220	1-130-475-00	MYLAR	0.0022uF	5%	50V
C221	1-136-495-11	MYLAR	0.068uF	5%	50V
C222	1-136-495-11	MYLAR	0.068uF	5%	50V
C223	1-136-169-00	MYLAR	0.22uF	5%	50V
C224	1-136-169-00	MYLAR	0.22uF	5%	50V
C225	1-104-665-11	ELECT	100uF	20%	10V
C226	1-126-963-11	ELECT	4.7uF	20%	50V
C227	1-126-960-11	ELECT	1uF	20%	50V
C228	1-162-294-31	CERAMIC	0.001uF	10%	50V
C229	1-104-664-11	ELECT	47uF	20%	10V
C230	1-104-664-11	ELECT	47uF	20%	10V
C231	1-162-282-31	CERAMIC	100PF	10%	50V
C232	1-162-282-31	CERAMIC	100PF	10%	50V
C233	1-162-282-31	CERAMIC	100PF	10%	50V
C234	1-162-282-31	CERAMIC	100PF	10%	50V
C235	1-162-282-31	CERAMIC	100PF	10%	50V
C313	1-127-880-21	CERAMIC	0.022uF	10%	50V
C314	1-162-292-31	CERAMIC	680PF	10%	50V
C315	1-124-252-00	ELECT	0.33uF	20%	50V
C316	1-126-962-11	ELECT	3.3uF	20%	50V
C317	1-126-961-11	ELECT	2.2uF	20%	50V
C318	1-126-964-11	ELECT	10uF	20%	50V
C319	1-126-963-11	ELECT	4.7uF	20%	50V
C320	1-127-888-21	CERAMIC	0.1uF	10%	50V
C321	1-104-665-11	ELECT	100uF	20%	10V
C322	1-104-664-11	ELECT	47uF	20%	10V
C323	1-127-888-21	CERAMIC	0.1uF	10%	50V
C324	1-162-282-31	CERAMIC	100PF	10%	50V
C325	1-162-282-31	CERAMIC	100PF	10%	50V
C326	1-126-963-11	ELECT	4.7uF	20%	50V
C327	1-126-934-11	ELECT	220uF	20%	10V
C329	1-126-964-11	ELECT	10uF	20%	50V
C351	1-104-665-11	ELECT	100uF	20%	10V
C352	1-161-494-00	CERAMIC	0.022uF		25V
C353	1-126-924-11	ELECT	330uF	20%	10V
C354	1-104-664-11	ELECT	47uF	20%	10V
C355	1-104-665-11	ELECT	100uF	20%	10V
C356	1-162-306-11	CERAMIC	0.01uF	20%	16V
C357	1-104-665-11	ELECT	100uF	20%	10V
C358	1-161-494-00	CERAMIC	0.022uF		25V
C359	1-126-964-11	ELECT	10uF	20%	50V
C360	1-126-382-11	ELECT	100uF	20%	16V
C361	1-104-664-11	ELECT	47uF	20%	10V
C362	1-162-306-11	CERAMIC	0.01uF	20%	16V
C363	1-162-306-11	CERAMIC	0.01uF	20%	16V

Ref. No.	Part No.	Description			Remark
C364	1-162-306-11	CERAMIC	0.01uF	20%	16V
C365	1-162-306-11	CERAMIC	0.01uF	20%	16V
C366	1-127-888-21	CERAMIC	0.1uF	10%	50V
C367	1-162-306-11	CERAMIC	0.01uF	20%	16V
C368	1-126-963-11	ELECT	4.7uF	20%	50V
C369	1-104-665-11	ELECT	100uF	20%	10V
C370	1-127-888-21	CERAMIC	0.1uF	10%	50V
C371	1-104-664-11	ELECT	47uF	20%	25V
		< CONNECTOR >			
* CNP303	1-774-957-11	PIN, CONNECTOR (PC BOARD) 11P			
* CNP304	1-580-158-11	PIN, CONNECTOR (PC BOARD) 6P			
* CNP305	1-774-957-11	PIN, CONNECTOR (PC BOARD) 11P			
* CNP306	1-695-329-31	PIN, CONNECTOR (PC BOARD) 6P			
CNP307	1-568-845-11	PIN, CONNECTOR (PC BOARD) 31P			
* CNP309	1-770-249-11	HOUSING, CONNECTOR (PC BOARD) 9P			
		< DIODE >			
D311	8-719-991-33	DIODE 1SS133T-77			
D312	8-719-991-33	DIODE 1SS133T-77			
D313	8-719-110-08	DIODE RD8.2ES-B2			
D315	8-719-109-89	DIODE RD5.6ESB2			
D316	8-719-110-17	DIODE RD10ESB2			
D317	8-719-991-33	DIODE 1SS133T-77			
D318	8-719-991-33	DIODE 1SS133T-77			
D319	8-719-991-33	DIODE 1SS133T-77			
D321	8-719-991-33	DIODE 1SS133T-77			
D322	8-719-991-33	DIODE 1SS133T-77			
D323	8-719-991-33	DIODE 1SS133T-77			
D324	8-719-109-89	DIODE RD5.6ESB2			
D325	8-719-991-33	DIODE 1SS133T-77			
D326	8-719-991-33	DIODE 1SS133T-77			
D327	8-719-991-33	DIODE 1SS133T-77			
		< IC >			
IC302	8-759-657-36	IC BD3859FV			
IC303	8-759-701-54	IC NJM2073D			
IC304	8-759-800-71	IC LA2010			
IC305	8-759-646-52	IC KIA7805API			
		< JACK >			
J302	1-770-772-11	JACK, PIN 2P (SIGNAL OUTPUT L/R)			
		< RESISTOR >			
JW256	1-249-427-11	CARBON	6.8K	5%	1/4W
JW257	1-249-427-11	CARBON	6.8K	5%	1/4W
		< COIL >			
L303	1-414-142-11	INDUCTOR	1uH		
		< TRANSISTOR >			
Q101	8-729-036-80	TRANSISTOR KRC110M			

Ref. No.	Part No.	Description	Remark
Q102	8-729-036-80	TRANSISTOR KRC110M	
Q103	8-729-036-77	TRANSISTOR KRC107M	
Q104	8-729-905-50	TRANSISTOR DTC343TS	
Q105	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q106	8-729-036-80	TRANSISTOR KRC110M	
Q201	8-729-036-80	TRANSISTOR KRC110M	
Q202	8-729-036-80	TRANSISTOR KRC110M	
Q203	8-729-036-77	TRANSISTOR KRC107M	
Q204	8-729-905-50	TRANSISTOR DTC343TS	
Q205	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q206	8-729-036-80	TRANSISTOR KRC110M	
Q312	8-729-037-29	TRANSISTOR KRA102M	
Q313	8-729-036-77	TRANSISTOR KRC107M	
Q314	8-729-037-13	TRANSISTOR KTA1271Y	
Q315	8-729-036-77	TRANSISTOR KRC107M	
Q316	8-729-036-77	TRANSISTOR KRC107M	
Q317	8-729-037-29	TRANSISTOR KRA102M	
Q318	8-729-037-03	TRANSISTOR KTA1266GR-AT	
Q319	8-729-037-29	TRANSISTOR KRA102M	
Q320	8-729-036-58	TRANSISTOR KRC102M-AT	
Q321	8-729-209-15	TRANSISTOR 2SD2012	
Q322	8-729-037-03	TRANSISTOR KTA1266GR-AT	
Q323	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q324	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q325	8-729-209-15	TRANSISTOR 2SD2012	
Q326	8-729-209-15	TRANSISTOR 2SD2012	
Q327	8-729-036-58	TRANSISTOR KRC102M-AT	
Q328	8-729-037-13	TRANSISTOR KTA1271Y	
Q329	8-729-036-77	TRANSISTOR KRC107M	
Q330	8-729-036-77	TRANSISTOR KRC107M	
Q331	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q332	8-729-037-29	TRANSISTOR KRA102M	
Q333	8-729-037-29	TRANSISTOR KRA102M	
Q335	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q336	8-729-036-77	TRANSISTOR KRC107M	
		< RESISTOR >	
R110	1-249-429-11	CARBON 10K 5%	1/4W
R111	1-249-420-11	CARBON 1.8K 5%	1/4W
R114	1-247-807-31	CARBON 100 5%	1/4W
R116	1-249-427-11	CARBON 6.8K 5%	1/4W
R117	1-249-415-11	CARBON 680 5%	1/4W
R118	1-249-417-11	CARBON 1K 5%	1/4W
R119	1-249-417-11	CARBON 1K 5%	1/4W
R120	1-249-437-11	CARBON 47K 5%	1/4W
R121	1-249-431-11	CARBON 15K 5%	1/4W
R122	1-249-441-11	CARBON 100K 5%	1/4W
R123	1-249-429-11	CARBON 10K 5%	1/4W
R124	1-249-421-11	CARBON 2.2K 5%	1/4W
R125	1-247-843-11	CARBON 3.3K 5%	1/4W
R126	1-249-441-11	CARBON 100K 5%	1/4W
R127	1-249-417-11	CARBON 1K 5%	1/4W
R128	1-249-429-11	CARBON 10K 5%	1/4W

MAIN POWER

Ref. No.	Part No.	Description			Remark
R129	1-249-425-11	CARBON	4.7K	5%	1/4W
R130	1-249-417-11	CARBON	1K	5%	1/4W
R131	1-247-791-11	CARBON	22	5%	1/4W
R134	1-249-425-11	CARBON	4.7K	5%	1/4W
R210	1-249-429-11	CARBON	10K	5%	1/4W
R211	1-249-420-11	CARBON	1.8K	5%	1/4W
R214	1-247-807-31	CARBON	100	5%	1/4W
R216	1-249-427-11	CARBON	6.8K	5%	1/4W
R217	1-249-415-11	CARBON	680	5%	1/4W
R218	1-249-417-11	CARBON	1K	5%	1/4W
R219	1-249-417-11	CARBON	1K	5%	1/4W
R220	1-249-437-11	CARBON	47K	5%	1/4W
R221	1-249-431-11	CARBON	15K	5%	1/4W
R222	1-249-441-11	CARBON	100K	5%	1/4W
R223	1-249-429-11	CARBON	10K	5%	1/4W
R224	1-249-421-11	CARBON	2.2K	5%	1/4W
R225	1-247-843-11	CARBON	3.3K	5%	1/4W
R226	1-249-441-11	CARBON	100K	5%	1/4W
R227	1-249-417-11	CARBON	1K	5%	1/4W
R228	1-249-429-11	CARBON	10K	5%	1/4W
R229	1-249-425-11	CARBON	4.7K	5%	1/4W
R230	1-249-417-11	CARBON	1K	5%	1/4W
R231	1-247-791-11	CARBON	22	5%	1/4W
R234	1-249-425-11	CARBON	4.7K	5%	1/4W
R320	1-249-426-11	CARBON	5.6K	5%	1/4W
R321	1-247-891-00	CARBON	330K	5%	1/4W
R322	1-249-441-11	CARBON	100K	5%	1/4W
R323	1-249-401-11	CARBON	47	5%	1/4W
R324	1-249-417-11	CARBON	1K	5%	1/4W
R325	1-249-429-11	CARBON	10K	5%	1/4W
R327	1-249-435-11	CARBON	33K	5%	1/4W
R328	1-249-435-11	CARBON	33K	5%	1/4W
R329	1-249-441-11	CARBON	100K	5%	1/4W
R330	1-247-791-11	CARBON	22	5%	1/4W
R331	1-249-425-11	CARBON	4.7K	5%	1/4W
R332	1-249-425-11	CARBON	4.7K	5%	1/4W
R334	1-249-441-11	CARBON	100K	5%	1/4W
R335	1-249-421-11	CARBON	2.2K	5%	1/4W
R336	1-249-421-11	CARBON	2.2K	5%	1/4W
R337	1-249-441-11	CARBON	100K	5%	1/4W
R338	1-249-418-11	CARBON	1.2K	5%	1/4W
R339	1-249-418-11	CARBON	1.2K	5%	1/4W
R340	1-249-429-11	CARBON	10K	5%	1/4W
R351	1-249-413-11	CARBON	470	5%	1/4W
R352	1-247-807-31	CARBON	100	5%	1/4W
R353	1-247-815-11	CARBON	220	5%	1/4W
R354	1-249-434-11	CARBON	27K	5%	1/4W
R356	1-249-429-11	CARBON	10K	5%	1/4W
R357	1-249-421-11	CARBON	2.2K	5%	1/4W
R358	1-249-441-11	CARBON	100K	5%	1/4W
R359	1-247-807-31	CARBON	100	5%	1/4W
R360	1-247-807-31	CARBON	100	5%	1/4W
R361	1-247-815-11	CARBON	220	5%	1/4W

Ref. No.	Part No.	Description			Remark
R362	1-247-815-11	CARBON	220	5%	1/4W
R364	1-249-437-11	CARBON	47K	5%	1/4W
R365	1-249-421-11	CARBON	2.2K	5%	1/4W
R366	1-249-417-11	CARBON	1K	5%	1/4W
R367	1-249-421-11	CARBON	2.2K	5%	1/4W
R368	1-247-863-11	CARBON	22K	5%	1/4W
R369	1-249-429-11	CARBON	10K	5%	1/4W
R370	1-249-441-11	CARBON	100K	5%	1/4W
R371	1-249-417-11	CARBON	1K	5%	1/4W
R372	1-249-417-11	CARBON	1K	5%	1/4W
R373	1-249-437-11	CARBON	47K	5%	1/4W
R374	1-249-427-11	CARBON	6.8K	5%	1/4W
R375	1-249-424-11	CARBON	3.9K	5%	1/4W
R376	1-247-815-11	CARBON	220	5%	1/4W
**********					
*	A-3322-762-A	POWER BOARD, COMPLETE			
		**********			
	1-533-233-31	HOLDER, FUSE			
		< CAPACITOR >			
C181	1-126-957-11	ELECT	0.22uF	20%	50V
C182	1-162-294-31	CERAMIC	0.001uF	10%	50V
C184	1-136-165-00	MYLAR	0.1uF	5%	50V
C185	1-136-165-00	MYLAR	0.1uF	5%	50V
C281	1-126-957-11	ELECT	0.22uF	20%	50V
C282	1-162-294-31	CERAMIC	0.001uF	10%	50V
C284	1-136-165-00	MYLAR	0.1uF	5%	50V
C285	1-136-165-00	MYLAR	0.1uF	5%	50V
C381	1-126-946-11	ELECT	6800uF	20%	25V
C382	1-104-665-11	ELECT	100uF	20%	10V
C384	1-161-494-00	CERAMIC	0.022uF		25V
C385	1-104-664-11	ELECT	47uF	20%	25V
C901	1-136-169-00	MYLAR	0.22uF	5%	50V
C902	1-136-169-00	MYLAR	0.22uF	5%	50V
C903	1-136-169-00	MYLAR	0.22uF	5%	50V
C904	1-136-169-00	MYLAR	0.22uF	5%	50V
C906	1-136-169-00	MYLAR	0.22uF	5%	50V
C907	1-136-169-00	MYLAR	0.22uF	5%	50V
C908	1-136-169-00	MYLAR	0.22uF	5%	50V
C909	1-136-169-00	MYLAR	0.22uF	5%	50V
C910	1-126-968-11	ELECT	100uF	20%	50V
C911	1-127-876-21	CERAMIC	0.01uF	10%	50V
C912	1-127-876-21	CERAMIC	0.01uF	10%	50V
C913	1-127-876-21	CERAMIC	0.01uF	10%	50V
C914	1-126-968-11	ELECT	100uF	20%	50V
C915	1-126-964-11	ELECT	10uF	20%	50V
C916	1-127-880-21	CERAMIC	0.022uF	10%	50V
C917	1-126-960-11	ELECT	1uF	20%	50V
C918	1-126-960-11	ELECT	1uF	20%	50V
		< CONNECTOR >			
* CNP901	1-793-660-11	PIN, CONNECTOR (PC BOARD) 3P			

Ref. No.	Part No.	Description			Remark
* CNP902	1-691-580-11	PIN, CONNECTOR (PC BOARD) 9P			
* CNP903	1-564-507-11	PLUG, CONNECTOR 4P			
		< DIODE >			
D901	8-719-046-47	DIODE 1N5401TM			
D902	8-719-046-47	DIODE 1N5401TM			
D903	8-719-046-47	DIODE 1N5401TM			
D904	8-719-046-47	DIODE 1N5401TM			
D905	8-719-991-33	DIODE 1SS133T-77			
D906	8-719-063-79	DIODE 1N4002B			
D907	8-719-063-79	DIODE 1N4002B			
D908	8-719-063-79	DIODE 1N4002B			
D909	8-719-063-79	DIODE 1N4002B			
D910	8-719-991-33	DIODE 1SS133T-77			
D911	8-719-109-93	DIODE RD6.2ESB2			
D912	8-719-983-38	DIODE MTZJ-T-77-36B			
		< IC >			
IC311	8-759-333-16	IC LA4705NA			
		< JACK >			
J321	1-770-612-12	JACK, PIN 2P (SIGNAL IN L/R)			
		< COIL >			
L502	1-410-509-11	INDUCTOR	10uH		
L503	1-410-509-11	INDUCTOR	10uH		
		< LINE FILTER >			
⚠ LF901	1-402-663-11	TRANSFORMER, LINE FILTER (LFT)			
		< TRANSISTOR >			
Q901	8-729-036-89	TRANSISTOR KTC3198GR-AT			
Q902	8-729-037-34	TRANSISTOR KRA107M			
Q903	8-729-036-77	TRANSISTOR KRC107M			
Q904	8-729-037-13	TRANSISTOR KTA1271Y			
Q905	8-729-036-77	TRANSISTOR KRC107M			
Q906	8-729-036-77	TRANSISTOR KRC107M			
Q907	8-729-037-34	TRANSISTOR KRA107M			
Q908	8-729-036-77	TRANSISTOR KRC107M			
Q909	8-729-037-34	TRANSISTOR KRA107M			
Q910	8-729-012-83	FET 2SK679A			
Q911	8-729-012-83	FET 2SK679A			
Q912	8-729-036-58	TRANSISTOR KRC102M-AT			
Q913	8-729-037-34	TRANSISTOR KRA107M			
		< RESISTOR >			
R181	1-249-425-11	CARBON	4.7K	5%	1/4W
R182	1-247-851-11	CARBON	6.8K	5%	1/4W
R183	1-249-385-11	CARBON	2.2	5%	1/6W
R184	1-249-385-11	CARBON	2.2	5%	1/6W
R281	1-249-425-11	CARBON	4.7K	5%	1/4W
R282	1-247-851-11	CARBON	6.8K	5%	1/4W
R283	1-249-385-11	CARBON	2.2	5%	1/6W
R284	1-249-385-11	CARBON	2.2	5%	1/6W
R381	1-249-425-11	CARBON	4.7K	5%	1/4W
R383	1-249-417-11	CARBON	1K	5%	1/4W
R502	1-249-421-11	CARBON	2.2K	5%	1/4W
R503	1-249-421-11	CARBON	2.2K	5%	1/4W
R901	1-249-427-11	CARBON	6.8K	5%	1/4W
R902	1-247-807-31	CARBON	100	5%	1/4W
R903	1-247-739-11	CARBON	100	5%	1/2W
R904	1-247-891-00	CARBON	330K	5%	1/4W
R905	1-247-891-00	CARBON	330K	5%	1/4W
R906	1-249-431-11	CARBON	15K	5%	1/4W
R907	1-249-441-11	CARBON	100K	5%	1/4W
R908	1-247-895-11	CARBON	470K	5%	1/4W
R909	1-249-441-11	CARBON	100K	5%	1/4W
R910	1-247-895-11	CARBON	470K	5%	1/4W
R911	1-249-417-11	CARBON	1K	5%	1/4W
		< RELAY >			
⚠ RY901	1-755-386-11	RELAY			
**********					
*	1-677-027-11	SPEAKER BOARD			
		**********			
		< CONNECTOR >			
* CNP911	1-564-505-11	PLUG, CONNECTOR 2P			
		< TERMINAL >			
J901	1-536-707-21	TERMINAL, PUSH (2P) (SPEAKER OUTPUT R-CH)			
**********					
*	A-3322-501-A	TC BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C103	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C104	1-104-664-11	ELECT	47uF	20%	10V
C105	1-162-587-11	CERAMIC CHIP	0.039uF	10%	25V
C106	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C107	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C108	1-126-959-11	ELECT	0.47uF	20%	50V
C110	1-126-960-11	ELECT	1uF	20%	50V
C111	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C201	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C203	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C204	1-104-664-11	ELECT	47uF	20%	10V
C205	1-162-587-11	CERAMIC CHIP	0.039uF	10%	25V
C206	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C207	1-163-109-00	CERAMIC CHIP	47PF	5%	50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

TC TC RF

Ref. No.	Part No.	Description			Remark
C208	1-126-959-11	ELECT	0.47uF	20%	50V
C210	1-126-960-11	ELECT	1uF	20%	50V
C211	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C301	1-104-665-11	ELECT	100uF	20%	10V
C302	1-126-925-11	ELECT	470uF	20%	10V
C303	1-104-665-11	ELECT	100uF	20%	10V
C304	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C305	1-130-485-00	MYLAR	0.015uF	5%	50V
C306	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C307	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C308	1-104-664-11	ELECT	47uF	20%	10V
C309	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C310	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C311	1-163-033-11	CERAMIC CHIP	0.022uF		50V
C312	1-163-033-11	CERAMIC CHIP	0.022uF		50V
C391	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
		< CONNECTOR >			
CNP301	1-580-168-11	PIN, CONNECTOR (PC BOARD) 7P			
* CNP302	1-766-594-11	PIN, CONNECTOR (PC BOARD) 11P			
		< DIODE >			
D301	8-719-988-61	DIODE 1SS355TE-17			
D302	8-719-988-61	DIODE 1SS355TE-17			
		< IC >			
IC301	8-759-264-71	IC TA2068N			
		< JUMPER RESISTOR >			
JR101	1-216-295-00	SHORT	0		
JR102	1-216-295-00	SHORT	0		
JR103	1-216-295-00	SHORT	0		
JR104	1-216-295-00	SHORT	0		
JR105	1-216-295-00	SHORT	0		
JR106	1-216-295-00	SHORT	0		
JR107	1-216-295-00	SHORT	0		
JR108	1-216-295-00	SHORT	0		
JR109	1-216-295-00	SHORT	0		
JR110	1-216-295-00	SHORT	0		
JR111	1-216-295-00	SHORT	0		
JR113	1-216-295-00	SHORT	0		
JR114	1-216-295-00	SHORT	0		
		< TRANSISTOR >			
Q301	8-729-036-86	TRANSISTOR KTC3203Y-AT			
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q304	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q305	8-729-900-53	TRANSISTOR DTC114EK			
Q306	8-729-900-53	TRANSISTOR DTC114EK			
Q307	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q308	8-729-027-23	TRANSISTOR DTA114EKA-T146			

Ref. No.	Part No.	Description			Remark
Q309	8-729-900-53	TRANSISTOR DTC114EK			
Q310	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q311	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q334	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		< RESISTOR >			
R101	1-216-077-11	RES-CHIP	15K	5%	1/10W
R102	1-216-019-00	METAL CHIP	56	5%	1/10W
R103	1-216-097-11	RES-CHIP	100K	5%	1/10W
R104	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R105	1-216-025-11	RES-CHIP	100	5%	1/10W
R106	1-216-049-11	RES-CHIP	1K	5%	1/10W
R107	1-216-025-11	RES-CHIP	100	5%	1/10W
R108	1-216-033-00	METAL CHIP	220	5%	1/10W
R109	1-216-033-00	METAL CHIP	220	5%	1/10W
R201	1-216-077-11	RES-CHIP	15K	5%	1/10W
R202	1-216-019-00	METAL CHIP	56	5%	1/10W
R203	1-216-097-11	RES-CHIP	100K	5%	1/10W
R204	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R205	1-216-025-11	RES-CHIP	100	5%	1/10W
R206	1-216-049-11	RES-CHIP	1K	5%	1/10W
R207	1-216-025-11	RES-CHIP	100	5%	1/10W
R208	1-216-033-00	METAL CHIP	220	5%	1/10W
R209	1-216-033-00	METAL CHIP	220	5%	1/10W
R301	1-216-121-11	RES-CHIP	1M	5%	1/10W
R302	1-216-017-11	RES-CHIP	47	5%	1/10W
R303	1-216-073-00	METAL CHIP	10K	5%	1/10W
R304	1-216-073-00	METAL CHIP	10K	5%	1/10W
R305	1-216-073-00	METAL CHIP	10K	5%	1/10W
R306	1-216-073-00	METAL CHIP	10K	5%	1/10W
R307	1-216-097-11	RES-CHIP	100K	5%	1/10W
R308	1-216-097-11	RES-CHIP	100K	5%	1/10W
R309	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R310	1-216-073-00	METAL CHIP	10K	5%	1/10W
R311	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R312	1-216-093-11	RES-CHIP	68K	5%	1/10W
R313	1-216-017-11	RES-CHIP	47	5%	1/10W
R314	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R315	1-216-049-11	RES-CHIP	1K	5%	1/10W
R316	1-216-049-11	RES-CHIP	1K	5%	1/10W
R317	1-216-049-11	RES-CHIP	1K	5%	1/10W
R318	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
		< TRANSFORMER >			
T301	1-429-820-11	TRANSFORMER, BIAS OSCILLATION			
**********					
*	1-673-338-11	TC RF BOARD			
		**********			
		< CONNECTOR >			
* CNP314	1-580-170-11	PIN, CONNECTOR (PC BOARD) 9P			

Ref. No.	Part No.	Description			Remark
		< PHOTO INTERRUPTER >			
PH691	8-719-078-47	PHOTO INTERRUPTER SG-211V			
		< RESISTOR >			
R691	1-249-441-11	CARBON	100K	5%	1/4W
		< SWITCH >			
S691	1-771-893-11	MODE (SW) (HEAD POSITION)			
S692	1-771-661-11	SWITCH, LEAF (HALF DET)			
S693	1-771-661-11	SWITCH, LEAF (CrO2)			
S694	1-771-661-11	SWITCH, LEAF (FWD ERASE PROOF)			
S695	1-771-661-11	SWITCH, LEAF (REV ERASE PROOF)			
**********					
*	1-677-030-11	TOP BOARD			
		**********			
		< CABLE HOLDER >			
* KH811	1-565-384-11	HOLDER, CABLE 3P			
		< RESISTOR >			
R421	1-249-413-11	CARBON	470	5%	1/4W
R422	1-249-412-11	CARBON	390	5%	1/4W
R423	1-249-413-11	CARBON	470	5%	1/4W
R424	1-249-413-11	CARBON	470	5%	1/4W
R425	1-249-415-11	CARBON	680	5%	1/4W
R426	1-249-415-11	CARBON	680	5%	1/4W
R427	1-249-417-11	CARBON	1K	5%	1/4W
R428	1-249-418-11	CARBON	1.2K	5%	1/4W
R429	1-249-419-11	CARBON	1.5K	5%	1/4W
R430	1-249-421-11	CARBON	2.2K	5%	1/4W
R431	1-247-843-11	CARBON	3.3K	5%	1/4W
R432	1-249-413-11	CARBON	470	5%	1/4W
R433	1-249-412-11	CARBON	390	5%	1/4W
R434	1-249-413-11	CARBON	470	5%	1/4W
R435	1-249-413-11	CARBON	470	5%	1/4W
R436	1-249-415-11	CARBON	680	5%	1/4W
R437	1-249-415-11	CARBON	680	5%	1/4W
		< SWITCH >			
S801	1-762-798-11	SWITCH, KEY BOARD (LINE)			
S802	1-762-798-11	SWITCH, KEY BOARD (TAPE ►)			
S803	1-762-798-11	SWITCH, KEY BOARD (TAPE ◄)			
S804	1-762-798-11	SWITCH, KEY BOARD (TAPE ■)			
S805	1-762-798-11	SWITCH, KEY BOARD (CD DUBBING)			
S806	1-762-798-11	SWITCH, KEY BOARD (● REC)			
S807	1-762-798-11	SWITCH, KEY BOARD (◄◄)			
S808	1-762-798-11	SWITCH, KEY BOARD (►►)			
S809	1-762-798-11	SWITCH, KEY BOARD (I◄◄/TUNING TIME SET –)			
S810	1-762-798-11	SWITCH, KEY BOARD (►►I/TUNING TIME SET +)			
S811	1-762-798-11	SWITCH, KEY BOARD (RDS)			
S812	1-762-798-11	SWITCH, KEY BOARD (CD ■)			
S813	1-762-798-11	SWITCH, KEY BOARD (CD ►II)			
S814	1-762-798-11	SWITCH, KEY BOARD (PRESET –)			
S815	1-762-798-11	SWITCH, KEY BOARD (BAND AUTO PRESET)			
S816	1-762-798-11	SWITCH, KEY BOARD (PRESET +)			
S817	1-762-798-11	SWITCH, KEY BOARD (SNOOZE)			
**********					
*	A-3323-552-A	TUNER BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C2	1-126-960-11	ELECT	1uF	20%	50V
C3	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C4	1-126-963-11	ELECT	4.7uF	20%	50V
C5	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C6	1-163-037-00	CERAMIC CHIP	0.022uF	5%	50V
C7	1-163-037-00	CERAMIC CHIP	0.022uF	5%	50V
C8	1-126-934-11	ELECT	220uF	20%	10V
C9	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C10	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C11	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C12	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C13	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C14	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C15	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C16	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C17	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C18	1-163-103-11	CERAMIC CHIP	27PF	5%	50V
C19	1-126-960-11	ELECT	1uF	20%	50V
C20	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C21	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C22	1-126-960-11	ELECT	1uF	20%	50V
C23	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C24	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C25	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C26	1-163-021-11	CERAMIC CHIP	0.001uF	10%	50V
C27	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C28	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C29	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C30	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C31	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C32	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C33	1-104-665-11	ELECT	100uF	20%	10V
C34	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C35	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C36	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C37	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C38	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C40	1-136-171-00	MYLAR	0.33uF	5%	50V
C41	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C44	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C45	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C46	1-163-117-00	CERAMIC CHIP	100PF	5%	50V

TUNER

Ref. No.	Part No.	Description			Remark
C47	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C48	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C49	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
		< FILTER >			
CF2	1-760-738-61	FILTER, CERAMIC			
CF3	1-760-738-61	FILTER, CERAMIC			
CF4	1-781-344-12	FILTER, AM CERAMIC			
		< CONNECTOR >			
* CNP1	1-766-594-11	PIN, CONNECTOR (PC BOARD) 11P			
		< TRIMMER >			
CT1	1-141-227-00	TRIMMER, CERAMIC	20PF		
CT3	1-141-410-11	CAP, ADJ	10PF		
		< DIODE >			
D1	8-719-988-61	DIODE	1SS355TE-17		
D2	8-719-988-61	DIODE	1SS355TE-17		
D3	8-719-050-69	DIODE	KV1520N		
D4	8-719-076-71	DIODE	KV1471ETR		
D5	8-719-076-71	DIODE	KV1471ETR		
D6	8-719-988-61	DIODE	1SS355TE-17		
D7	8-719-988-61	DIODE	1SS355TE-17		
		< BPF >			
FL1	1-236-711-21	FILTER, BAND PASS			
		< IC >			
IC1	8-759-662-67	IC	TA2149N		
IC2	8-759-483-40	IC	LC72137M-TLM		
		< JUMPER RESISTOR >			
JC1	1-216-295-00	SHORT	0		
JC2	1-216-295-00	SHORT	0		
JC3	1-216-295-00	SHORT	0		
JC4	1-216-295-00	SHORT	0		
JC5	1-216-295-00	SHORT	0		
JC6	1-216-295-00	SHORT	0		
JC7	1-216-295-00	SHORT	0		
JC8	1-216-295-00	SHORT	0		
JC9	1-216-295-00	SHORT	0		
JC10	1-216-295-00	SHORT	0		
JC11	1-216-295-00	SHORT	0		
JC12	1-216-295-00	SHORT	0		
JC13	1-216-295-00	SHORT	0		
JC14	1-216-295-00	SHORT	0		
JC16	1-216-295-00	SHORT	0		
JC19	1-216-295-00	SHORT	0		
JC22	1-216-295-00	SHORT	0		

Ref. No.	Part No.	Description			Remark
		< COIL >			
L1	1-416-533-11	COIL, AIR-CORE			
L2	1-416-509-11	COIL, AIR-CORE			
		< RESISTOR >			
R1	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2	1-216-037-00	METAL CHIP	330	5%	1/10W
R3	1-216-089-11	RES-CHIP	47K	5%	1/10W
R4	1-216-105-11	RES-CHIP	220K	5%	1/10W
R5	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R7	1-216-077-11	RES-CHIP	15K	5%	1/10W
R8	1-216-001-00	METAL CHIP	10	5%	1/10W
R9	1-216-033-00	METAL CHIP	220	5%	1/10W
R10	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R11	1-216-089-11	RES-CHIP	47K	5%	1/10W
R13	1-216-049-11	RES-CHIP	1K	5%	1/10W
R15	1-216-029-00	METAL CHIP	150	5%	1/10W
R16	1-216-049-11	RES-CHIP	470	5%	1/10W
R17	1-216-049-11	RES-CHIP	470	5%	1/10W
R18	1-216-049-11	RES-CHIP	1K	5%	1/10W
R19	1-216-049-11	RES-CHIP	1K	5%	1/10W
R20	1-216-049-11	RES-CHIP	1K	5%	1/10W
R21	1-216-049-11	RES-CHIP	1K	5%	1/10W
R23	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R24	1-216-049-11	RES-CHIP	1K	5%	1/10W
R25	1-216-081-00	METAL CHIP	22K	5%	1/10W
R26	1-216-073-00	METAL CHIP	10K	5%	1/10W
R27	1-216-075-00	METAL CHIP	12K	5%	1/10W
R28	1-216-043-11	RES-CHIP	560	5%	1/10W
R30	1-216-073-00	METAL CHIP	10K	5%	1/10W
R31	1-216-041-00	METAL CHIP	470	5%	1/10W
R32	1-216-049-11	RES-CHIP	1K	5%	1/10W
R33	1-216-049-11	RES-CHIP	1K	5%	1/10W
		< TRANSFORMER >			
T1	1-435-333-11	TRANSFORMER, IF			
T2	1-419-465-11	COIL (DET)			
T3	1-416-251-11	COIL, AM ANT			
T4	1-411-234-21	COIL, AM OSC			
		< TERMINAL >			
TM1	1-694-668-11	TERMINAL BOARD (AM,EXT ANT)			
		< VIBRATOR >			
X1	1-781-592-11	VIBRATOR, CRYSTAL (75kHz)			

****

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
* 15	1-792-256-11	CABLE, FLEXIBLE (6P) (MAIN-CD)	
* 16	1-792-226-11	CABLE, FFC (15P) (CD-CONT)	
* 55	1-792-225-11	CABLE, FFC (31P) (MAIN-CONT)	
* 109	1-792-227-11	CABLE, FFC (16P) (CD-PICK UP)	
185	1-792-511-11	WIRE (MM)	
* 232	1-794-104-11	HOUSING	
⚠251	8-848-483-05	OPTICAL PICK-UP KSS-213C	
255	X-2646-381-1	CHASSIS ASSY (MB) (RP), MOTOR (SPINDLE) (INCLUDING M702)	
⚠308	1-783-531-11	CORD, POWER	
314	1-757-050-11	LEAD WIRE (WITH CONNECTOR)	
⚠F901	1-532-501-51	FUSE (0.8A/245V)	
⚠F902	1-532-506-51	FUSE (6.3A/250V)	
HRPE301	1-418-847-11	HEAD ASSY, HOLDER (REC/PB/ERASE)	
M651	A-3320-538-A	MOTOR ASSY, LOADING (LOADING)	
M691	3-045-799-01	MOTOR ASSY (CAPSTAN/RELL) (INCLUDING PULLEY)	
M701	X-2625-769-1	GEAR ASSY, MOTOR (SLED)	
PM691	1-454-896-11	SOLENOID, PLUNGER	
SP101	1-529-615-11	SPEAKER (8cm) (L-CH)	
SP201	1-529-615-11	SPEAKER (8cm) (R-CH)	
⚠T901	1-435-351-11	TRANSFORMER, POWER	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-501-374-11	ANTENNA, LOOP (AM)	
	1-501-594-51	ANTENNA (FM) (Canadian)	
	1-501-695-11	ANTENNA (FM) (US)	
	1-791-562-11	CORD, CONNECTION (AUDIO)	
	3-027-153-11	LID, BATTERY CASE (for RMT-CDR45A)	
	3-044-713-71	MANUAL, INSTRUCTION (ENGLISH)	
	3-044-713-81	MANUAL, INSTRUCTION (ENGLISH,FRENCH) (Canadian)	
	A-3258-018-A	REMOTE COMMANDER RMT-CDR45A	
**********			

Ref. No.	Part No.	Description	Remark
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-685-648-14	SCREW +BVTP 3X12 TYPE2 N-S	
#3	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#4	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
#5	7-621-283-00	SCREW +P 2X5	
#6	7-621-772-00	SCREW +B 2X3	
#7	7-682-560-04	SCREW +B 4X6	
#8	7-621-843-25	SCREW, WOOD +R 3.1X10	
#9	7-685-548-14	SCREW +BTP 3X12 TYPE2 N-S	
#10	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

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